# CITY OF WOOD RIVER, ILLINOIS RESPONSE TO U.S.E.P.A. ADMINISTRATIVE ORDER [Docket No.: V-W-05-AO-16]



## **CSO LONG TERM CONTROL PLAN**

**APPENDIX PART 1** 



## CITY OF WOOD RIVER, ILLINOIS RESPONSE TO U.S.E.P.A. ADMINISTRATIVE ORDER

[ Docket No.: V-W-05-AO-16]



## **CSO LONG TERM CONTROL PLAN**

### **APPENDIX PART 1**



## APPENDIX A

**U.S.E.P.A.** Administrative Order



#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION 5** 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

SEP 3 0 2005

REPLY TO THE ATTENTION OF

WC-15J

## CERTIFIED MAIL 700/ 0320 0005 9026

Honorable Fred Ufert Mayor of Wood River, IL 111 North Wood River Avenue Wood River, IL 62095

Subject:

Order Pursuant to Sections 308 and

309(a) of the Clean Water Act

Docket No.: V-W-05-A0-/6

Dear Mayor Ufert:

Enclosed is the above-referenced Administrative Order issued pursuant to Sections 308 and 309(a) of the Clean Water Act.

Compliance with the terms of this Order is required within the time periods specified in the Order. Failure to comply with the Order may subject the City of Wood River to further enforcement action pursuant to Title 33 U.S.C. § 1319.

We encourage your compliance with this order, and are available to meet with you to discuss its requirements.

If you have any questions concerning this matter, please contact John Wiemhoff of my staff at (312) 353-8546.

Sincerely yours,

Jo Lynn Traub

Director, Water Division

Enclosure

Steve Palen, Wood River

Bruce Murphy - Veolia Water

Chris Port, IEPA

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

IN THE MATTER OF:	) DOCKET NO.: V- W-05-A0-16
CITY OF WOOD RIVER	)
	) FINDINGS OF VIOLATION
WOOD RIVER, ILLINOIS	) AND
	ORDER FOR COMPLIANCE
PROCEEDING UNDER SECTIONS 308	
AND 309(a) OF THE CLEAN WATER ACT,	j
AS AMENDED	)

#### STATUTORY AUTHORITY

The following FINDINGS are made and ORDER issued pursuant to the authority vested in the Administrator of the Environmental Protection Agency (U.S. EPA) by Sections 308 and 309(a) of the Clean Water Act (CWA), 33 U.S.C. §§ 1318 and 1319(a), as amended. This authority has been delegated to the Regional Administrator of the U.S. EPA, Region 5, and redelegated by the Regional Administrator to the Director, Water Division.

#### **FINDINGS**

- The City of Wood River ("the City") owns and operates a Sewage Treatment Plant (STP)
  within the State of Illinois. This STP is located on 559 State Aid Road in Wood River,
  Illinois.
- 2. The City also owns and operates a combined sewer system, which collects both sanitary wastewaters and stormwater and conveys the combined wastewaters and stormwater to a Main Pump Station; from the Main Pump Station the combined wastewaters and stormwater are conveyed to the STP. During high wet weather flow periods, however,

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- the City's combined sewer system diverts a portion of the combined sanitary wastewater and storm water away from this pump station and away from the STP to a combined sewer overflow (CSO) outfall (#A01).
- 3. The City is, and was at all times relevant to this Order, a "municipality" within the meaning of Section 502(4) of the CWA, 33 U.S.C. § 1362(4).
- 4. The City is, and was at all times relevant to this Order, a "person" as that term is defined in Section 502(5) of the CWA, 33 U.S.C. § 1362(5).
- 5. The City's STP is a publicly owned treatment works (POTW), as that term is defined at 40 C.F.R. § 403.3(p).
- A "discharge of a pollutant" as defined at Section 502(12)(a) of the CWA, 33 U.S.C.
   § 1362(12)(a), is any addition of any pollutant to navigable waters from any point source.
- 7. The objective of the CWA is to restore and maintain the chemical, physical and biological integrity of the Nation's waters. Section 101(a) of the CWA, 33 U.S.C. § 1251(a).
- 8. In order to accomplish the objective of the CWA, Section 301(a) of the CWA, 33 U.S.C. § 1311(a), states that it is unlawful for any person to discharge any pollutant except as in compliance with, inter alia, Section 402 of the CWA, 33 U.S.C. § 1342.
- 9. Section 402 of the CWA, 33 U.S.C. § 1342, establishes a National Pollutant Discharge Elimination System (NPDES) Permit Program authorizing U.S. EPA or U.S. EPA-authorized States to administer the NPDES Permit Program, including the issuance of NPDES permits allowing for the discharge of pollutants into navigable waters subject to specific terms and conditions. U.S. EPA has authorized the State of Illinois' Environmental Protection Agency (IEPA) to issue NPDES permits within the boundaries

- of the State, pursuant to Section 402(b) of the CWA, 33 U.S.C. § 1342(b).
- On December 31, 2001, IEPA issued NPDES permit number IL0031852 to the City of Wood River for discharges of pollutants into navigable waters associated with the City of Wood River's STP, which includes authorization of CSO discharges of pollutants into navigable waters (Mississippi River) at outfall #A01. Combined sewer overflows are untreated sanitary wastewater which are diluted by the contribution of storm water from storm inlets into the combined sewer. This Permit was modified on July 25, 2002 to include further elaboration of CSO Public Notification requirements, the addition of fecal coliform sampling of the CSO Outfall #A01, and other sampling requirements for the STP in general.
- 11. The City's NPDES Permit #IL0031852, as modified on July 25, 2002, (the "modified NPDES permit") contains a number of terms and conditions regarding the CSO discharges which are permitted at CSO outfall #A01. One such condition is Special Condition 13, Items 6.-a-i which requires compliance with the Nine Minimum Controls (NMCs) that are contained in the National CSO Control Policy published in the Federal Register on April 19, 1994. 59 Fed. Reg. 18688. The Nine Minimum Controls, as stated in the National CSO Control Policy, are:
  - Proper operations and regular maintenance programs for the sewer system and CSO outfall(s);
  - 2. Maximum use of the collection system for storage;
  - Review and modification of pretreatment requirements to ensure that CSO impacts are minimized;

- 4. Maximization of flow to the POTW for treatment;
- 5. Elimination of CSOs during dry weather;
- Control of solid and floatable materials in CSOs;
- 7. Pollution prevention programs to reduce contaminants in CSOs;
- Public notification to ensure that the public receives adequate notification
   of CSO occurrences and CSO impacts; and
- Monitoring to effectively characterize CSO impacts and the efficacy of CSO controls.

According to the National CSO Control Policy, NPDES permittees with CSOs should maintain appropriate documentation that demonstrates implementation of the NMCs. 59 Fed. Reg. 18688, 18691.

- On February 16, 2005, U.S. EPA conducted an inspection ("the inspection") of the City's Wet Weather Program, including CSO outfall # A01 facilities, and the some of the collection systems feeding this CSO outfall, pursuant to Section 308 of the CWA, 33 U.S.C. § 1318. The City cooperatively responded to U.S. EPA's questions during the inspection and in a request for additional information after this inspection.
- 13. The modified NPDES permit required the City to submit to IEPA a revised Combined Sewer System Operational plan (CSSOP) by November 1, 2002 (Special Condition # 13, Item 8, Operational and Maintenance (O&M) Plans); the City's revised CSSOP was submitted more than four months late (i.e., during March 2003).
- 14. The Permit states that the Operational and Maintenance Plan will include mechanisms and specific procedures where applicable to ensure:

- A. Collection system inspection;
- B. Sewer, catch basin, and regulator cleaning and maintenance;
- C. Collection system replacement, where necessary;
- D. Detection and climination of illegal connections;
- E. Detection and elimination of dry weather overflows;
- F. The collection system to be operated to maximize storage capacity and delay storm entry into the system, and
- G. The treatment and collection systems are operated to maximize treatment. The revised CSSOP called for the City to perform a number of operation and maintenance tasks associated with the entire combined sewer system, including CSO outfall #A01 and its associated control equipment, and called for the City to maintain certain records regarding the performance of these tasks. The CSSOP's Chapter I, Section I.
  Recordkeeping states: "A variety of records that are pertinent to the collection system's operation, maintenance, and personnel are kept daily. They record the past history of the system's operations and are a basis to plan for future needs." Records that are to be kept, according to I-I-Recordkeeping, include: equipment usage and maintenance; service calls; trouble calls; and lift station inspections and maintenance.
- During the inspection, the City could not produce adequate records documenting the maintenance of the combined sewer system upstream of the CSO overflow (the coffer dam). Maintaining records of such maintenance is required by the modified NPDES permit under Special Condition 13, Items 6a. & 8., and Attachment H, Items (5) and (8).

  Proper operation and maintenance of combined sewer systems and CSO outfalls is one of

the NMCs. Specifically O&M task descriptions, frequencies of inspections and service, and records of completed inspection or maintenance activities were not available for any portion of the combined sewer system, other than records for inspections of equipment immediately associated with the Main Pump Station or the CSO outfall and the CSO control equipment (screens). Specific tasks listed in the CSSOP for which recorded documentation was missing for operation and maintenance include:

- Chapter I: Section I - Recordkeeping;
- Chapter IV: Sections A & K, respectively-Inspections; Section B - Preventative Maintenance; Section C - TV Inspections; Infiltration and Inflow Investigation; and, Section E - Equipment Maintenance.

Nor has the City provided to U.S. EPA any of the maintenance records referenced in this paragraph (for equipment other than Main Pump Station, coffer dam, and screening) since the date of the inspection.

- 16. During the inspection, the City was not able to produce documentation of compliance with NPDES modified Permit Special Condition #13; Item 9 with respect to the City's review and certification of the City's Sewer Use Ordinance (SUO), and submission of the SUO to the IEPA by August 1, 2002. Nor has the City subsequently provided the U.S. EPA with documentation showing that these actions have been performed as required by Special Condition #13, Item 9.
- 17. The City does not ensure the maximal use of upstream sewer systems for storage to minimize the frequency, duration, and volume of CSO discharges, as required by the modified NPDES Permit's Special Condition 13, Items 6.b. and 8.f. The City is not

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- During the inspection, the City was unable to provide records, as provided for by the 18. modified NPDES permit's Special Condition #13; Item 8.e., documenting that the City had been monitoring and servicing combined sewer lift stations (including remote intermediate lift stations serving combined sewer systems). Nor, subsequent to the inspection, has the City provided the U.S. EPA with documentation showing that such monitoring and servicing has been conducted.
- 19. The City experienced a wet January in 2005, with 4 CSO events reported with a total of 66.5 million gallons (MG) of CSO volume discharged to the Mississippi River; however, the maximum flow rate reported influent to the STP for the entire month of January was 8.75 MG per day (MGD; 11% lower than the 9.8 MGD design maximum flow [DMF] rate of the STP). Based on this data, the City had at least 11% of unused STP capacity during the month of January 2005; this unused STP capacity could have been used for treatment of volumes of CSOs that occurred during January 2005. This situation is not consistent with the 4th NMC, or with Special Condition #13; Items 6.d and 8.g of the modified NPDES Permit, which require that flow to the STP be maximized, in order to minimize CSO events.
- During the inspection, the City was not able to produce records of implementation of CSO 20. pollution prevention practices which are listed in the revised March 2003 CSSOP (e.g., Street Cleaning; Flushing; Leaf Pick Up Program; Catch Basin Cleaning; etc.), and which

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are required by the modified NPDES Permit's Special Condition 13, Item 6.g., and the 7th NMC. Nor has the City, since the inspection, provided U.S. EPA with any documentation regarding its implementation of CSO pollution prevention practices. Implementation of CSO pollution prevention practices is required by the modified NPDES permit's Special Condition #13, Item 6.g as well as the statement at the end of Item 6 stating that "the Permittee shall implement the pollution prevention plan approved by the IEPA on December 18, 1997."

- 21. The modified NPDES permit's Special Condition #13, Items 6.h, and Item 12 - Public Notification (PN) Program section defines the requirements of the PN program, and states that the City must develop the program by August 1, 2002, hold a CSO PN Information Meeting by November 1, 2002, and send the IEPA a copy of the Information Meeting summary by February 1, 2003.
  - During the inspection, the City could not produce a record that any of these PN permitted benchmark tasks had been performed.
- 22. During the inspection, the City was unable to produce any evaluation of the efficacy of existing CSO controls, as is required by the 9th NMC, which was incorporated into the City's modified NPDES permit at Special Condition 13, Item 6.i. For example, the City was unable to produce any documentation showing that it had been testing for total suspended solids ("TSS") prior to and after the Levee District mechanical screens' treatment to see if solids (e.g., solids and floatables control) are effectively removed by this CSO control equipment. The City could not produce any conclusions which it had made based on the sampling and analyses required under the July 25, 2002. Permit

Modification conditions (e.g., fecal sampling, along with BOD, SS, and flow) as to the prevailing CSO impacts, and what current or future controls do (or not do) to minimize those impacts (e.g., what the impacts of fecal coliform values of 210,000 (gross values) in CSO outfall #A01 are). With respect to floatable and solids CSO control, the efficacy of upstream efforts (e.g., sewer cleaning and flushing; catch basin cleaning; street cleaning) have not been assessed by the City in conjunction with related downstream reduction in solids and floatables found in CSOs. Since the inspection, the City has not submitted any of this information to U.S. EPA. Currently, there is no disinfection process associated with treatment of CSO discharges to effect fecal coliform reductions.

- 23. After analyzing the fecal coliform levels detected in each of the CSO events which occurred during 2004, and after reviewing 2004 quarterly sampling of the Mississippi River by IEPA, the U.S. EPA finds that the City's CSO discharges during 2004 contributed to downstream Mississippi River in-stream water quality violations for fecal coliform.
- 24. The City has not prepared or implemented a Long Term Control Plan (LTCP) to address its recurring CSO events. The scope of a LTCP is described in the Federal CSO Policy issued in 1994.

#### ORDER

BASED ON THE FOREGOING FINDINGS and the authority vested in the undersigned Director, Water Division, Region 5, IT IS HEREBY ORDERED THAT:

- which demonstrates whether it has complied as listed in Finding 16 above with the requirements of the modified NPDES Permit at Special Condition #13; Items 9 and 14,

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  regarding the City's Sewer Use Ordinance. approach 10/25/05
  - 3. Within 60 days of the receipt of this Order, the City shall submit to U.S. EPA the following information in response to Finding 15 above:
  - the current collection of records of combined sewer system Operation and

    Maintenance, as required by both the City's modified NPDES Permit's Special

    Condition 13, Items 6a. & 8., respectively, and the State-approved revised

    Combined Sewer System Operational Plan, and
    - B) a Corrective Action Plan which addresses how the City will keep O&M records according to listed task, scope of task, and required frequency.
    - 4. Within 60 days of receipt of this Order, the City shall submit to U.S. EPA a plan which is designed to address Finding 17, and which should identify how the City plans to optimize the upstream sewer systems for storage to minimize the frequency, duration, and volume of CSO

discharges, as required by the modified NPDES Permit's Special Condition 13, Items 6.b. and 8.f.

- 5. Within 90 days of receipt of this Order, the City shall submit to U.S. EPA the following in response to Finding 20 above:
  - A) The current collection of records of implementation and performance of Pollution Prevention practices, as required by the City's modified NPDES Permit's Special Condition 13, Items 6.g. & 14, and as required by the City's revised Combined Sewer System Operational Plan; and.
  - B) a Corrective Action Plan which addresses how the City will develop, implement and maintain CSO Pollution Prevention programs according to listed task, scope of task, and required frequency.
- 6. Within 90 days of receipt of this Order, the City shall submit to U.S. EPA required documentation, as further elaborated in Finding 21, regarding whether the City has been in compliance with the modified NPDES Permit's Special Condition #13, Items 6.h, Item 12, Public Notification (PN), and a plan for ongoing compliance.
- 7. Within 180 days of receipt of this Order, the City shall develop, implement, and submit to U.S. EPA a plan that is designed to ensure that, as elaborated in Finding 19 and as required by the modified NPDES Permit's Special Condition 13, Item 6.d. and 8.g., there is a maximum of flow of combined sanitary wastewater and storm water to the POTW for treatment.
- 8. Within 120 days of receipt of this Order, the City shall submit the following in response to Finding 22 above:
  - A) The records for the last 4 years demonstrating compliance with the City's

modified NPDES Permit's Special Condition 13, Item 6.i., Item 10, and Item 14, which collectively deal with the need for the City to evaluate the efficacy of CSO controls and develop a plan to prevent CSOs from creating, or exacerbating violations of water quality standards; and

- B) Any current plans and documented implementation of plans the City has initiated in preparation of long term CSO control strategies (e.g., a Long Term Control Plan, or other similar plans).
- 9. Within 365 days of the receipt of this Order, the City shall prepare and submit to U.S. EPA a

  Long Term Control Plan ("LTCP"), as described in the Federal 1994 CSO Policy. U.S. EPA is
  to agree upon the scope of the LTCP prior to its development.
  - A) The LTCP shall incorporate the following minimum elements, although the requirements may be modified to account for the circumstances of the City:
    - Characterization, Monitoring, and Modeling of the combined sewer system, which includes a data management plan;
    - 2) Consideration of Sensitive Areas;
    - 3) Evaluation of Alternatives;
    - 4) Cost/Performance Considerations;
    - Revisions of the CSO Operational Plan (e.g., the City's Combined Sewer
       System Operational Plan [CSSOP]);
    - 6) Maximizing Treatment at the STP;
    - 7) Development of an Implementation Schedule;
    - 8) Development of a Post-Construction Compliance Monitoring Program;

and

- 9) Public Participation.
- B) In the evaluation of alternatives, the City shall include all pertinent information necessary to determine the City's reasonable financial capability to implement CSO controls to meet water quality standards.
  - Construction phasing shall consider prioritizing projects with the largest volume reductions;
  - 2) The City's financial capability analyses shall include consideration of such factors as:
    - a) Median household income/total project costs per household;
    - b) Per capita debt as a percent of full market property value;
    - c) Property tax revenues as a percent of full market property value;
    - d) Property tax collection rate;
    - e) Unemployment;
    - f) Bond rating;
    - g) Grant and loan availability;
    - h) Residential, commercial and industrial user fees; and
    - i) Other viable funding mechanisms and sources of financing.
- 10. The City of Wood River must submit all requested information under an authorized signature with the following certification: "All written statements submitted pursuant to this Order are true and accurate to the best of the signatory's knowledge and belief". Should the signatory find at any time after submittal of written statements pursuant to this Order, that any portion of

such statement(s) certified as true is false or incorrect, the signatory shall so notify Region 5.

All submittals and copied correspondence should be sent to the following address:

U.S. Environmental Protection Agency
Attention: John Wiemhoff; Water Enforcement and Compliance
Assurance Branch; Water Division, WC-15J
77 West Jackson Blvd.
Chicago, Illinois 60604

- 11. Failure to comply with the requirements of this Order shall constitute a violation of this Order and the CWA and may subject the City to penalties as provided in Section 309(d) of the CWA, 33 U.S.C. § 1319(d).
- 12. This Order does not waive or modify or in any way relieve the City of its obligations imposed by its permits, the CWA, or any local, state or federal law.
- 13. The U.S. EPA reserves the right to seek any and all remedies available under the CWA for any violation cited in the Order.
- 14. The U.S. EPA has notified IEPA of the above Findings and this Order.
- 15. Issuance of this Order shall not be deemed an election by U.S. EPA to forego any civil or criminal action to seek penalties, fines or other appropriate relief under the CWA.
- 16. The provisions of the Order shall be deemed satisfied upon a determination by U.S. EPA that the City of Wood River has fully completed and implemented the actions required under this Order.
- 17. This Order shall become effective upon receipt.

Jo Lynn Traub

Director, Water Division

U.S. Environmental Protection Agency

Region 5

9/29/05 Date

#### <u>Attachment</u>

#### **AUTHORITY AND CONFIDENTIALITY PROVISIONS**

#### Authority

Information requests are made under authority provided by Section 308 of the Clean Water Act, 33 U.S.C. 1318. Section 308 provides that: "Whenever required to carry out the objective of this Act, ...the Administrator shall require the owner or operator of any point sources to (i) establish and maintain such records, (ii) make such reports, (iii) install, use and maintain such monitoring equipment and methods (including where appropriate, biological monitoring methods), (iv) sample such effluent... and (v) provide such other information as he may reasonably require; and the Administrator or his authorized representative, upon presentation of his credentials, shall have a right of entry to...any premises in which an effluent source is located or in which any records...are located, and may at reasonable times have access to and copy any records...and sample any effluents..."

Please be advised that the submission of false statements is subject to federal prosecution under 18 U.S.C. §1001 and that this or any other failure to comply with the requirements of Section 308 as requested by U.S. EPA may result in enforcement action under the authority of Section 309 of the Clean Water Act, which provides for specified civil and/or criminal penalties.

#### Confidentiality

U.S. EPA regulations concerning confidentiality and treatment of business information are contained in 40 CFR Part 2, Subpart 8. Information may not be withheld from the Administrator or his authorized representative because it is viewed as confidential. However, when requested to do so, the Administrator is required to consider information to be confidential and to treat it accordingly, if disclosure would divulge methods or processes entitled to protection as trade secrets (33 U.S.C. §1318(b) and 18 U.S.C. §1905), except that effluent data (as defined in 40 CFR §2.302(a)(2)) may not be considered by U.S. EPA as confidential.

The regulations provide that one may assert a business confidentiality claim covering part or all of any trade secret information furnished to U.S. EPA at the time such information is provided to the Agency. The manner of asserting such claims is specified in 40 CFR §2.203(b). In the event that a request is made for release of information covered by such claim of confidentiality or the Agency otherwise decides to make determination as to whether or not such information is entitled to such confidential treatment, notice will be provided to the claimant prior to any release of the information. However, if no claim of confidentiality is made when information is furnished to U.S. EPA, any information submitted to the Agency may be made available to the public without prior notice.

Note:

This information request is not subject to the approval requirements of the Paperwork Reduction Act of 1980, 44 U.S.C. Chapter 35.

## APPENDIX B

**City of Wood River Sewer Maps** 

## <u>Appendix C</u> <u>Data and Methodology for Stormwater Run-Off Calculations</u>

#### Impervious Percentages

Manufacturing/Industrial Business/Commercial	100% 100%
	10070
Residential	
-Apartment, Condo, Multiple family dwellings	75%
-Single Family	
-1/4 Acre or less	50%
-1/4 Acre to 1/2 Acre	40%
-1/2 Acre to 1 Acre	35%
-1 Acre and above	30%
Playground	20% - 35%
Cemeteries & Parks	5%

#### Rational Method -- Total Stormwater Runoff

Q=API

where

Q = runoff (cu.ft./s)

A = Area (Acres)

I = Avg. Intensity of rainfall (in/hour)\*

\*Note: used one-hour three-month rainfall intensity= 0.81 in/hr.

P = runoff factor based on degree of perviousness

	Area		Q	Percent	Percent
Type	(Acres)	P Value	(cu. Ft./s)	Flow	Area
Conservation/Recreation	331	0.32	86	5%	8%
Agricultural	553	0.32	143	8%	13%
Mobile Home	11	0.6	5	0.3%	0.3%
Multi family 5	27	0.6	13	1%	1%
Multi family 4	131	0.6	64	3%	3%
Two Family	58	0.6	28	2%	1%
Industrial	974	0.7	552	30%	23%
Business Park	171	0.7	97	5%	4%
Downtown Business	43	0.7	24	1%	1%
Highway Business	470	0.7	267	14%	11%
Community Business	123	0.7	70	4%	3%
Neighborhood Business	33	0.7	18	1%	1%
Single Family R1	290	0.44	103	6%	7%
Single Family R2	953	0.5	386	21%	23%

## Appendix C Data and Methodology for Stormwater Run-Off Calculations

#### Rational Method -- Stormwater Runoff Entering Combined Sewers

Q=API

where

Q = runoff (cu.ft./s)

A = Area (Acres)

I = Avg. Intensity of rainfall (in/hour)\*

\*Note: used one-hour three-month rainfall intensity= 0.81 in/hr.

P = runoff factor based on degree of perviousness

	Area		Q	Percent	Percent
Type	(Acres)	P Value	(cu. Ft./s)	Flow	Area
Conservation/Recreation	- 27	0.32	7	1.0%	2%
Agricultural	0	0.32	0	0.0%	0%
Mobile Home	11	0.6	5	0.7%	0.7%
Multi family 5	17	0.6	8	1.1%	1%
Multi family 4	42	0.6	20	2.8%	3%
Two Family	58	0.6	28	3.8%	4%
Industrial	307	0.7	174	23.8%	20%
Business Park	. 0	0.7	0	0.0%	0%
Downtown Business	43	0.7	24	3.3%	3%
Highway Business	255	0.7	145	19.7%	17%
Community Business	73	0.7	41	5.6%	5%
Neighborhood Business	33	0.7	18	2.5%	2%
Single Family R1	290	0.44	103	14.1%	19%
Single Family R2	389	0.5	158	21.5%	25%

Total runoff needing treatment:

19.75 MG

Denotes areas which contain separate storm and sanitary sewers, or are undeveloped at this time

#### Appendix C Data and Methodology for Stormwater Run-Off Calculations

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		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	92	38.3	N/A	N/A	92	38.3
Highway Business Area:	ukedul P <b>z</b> ekkem	4.0			7	4.0
Single Family R2 Area:	85	34.4			85	34.4
			Percentage:	0%		100%
Ratio of Run-Off in Combined Sewers to Total Acreage in Section:					0.4	

#### Section 2

			000110112			
		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	86	36.4	- 26	11.1	60	25.3
Highway Business Area:	20	11.5	AT A DESCRIPTION OF THE PROPERTY OF THE PROPER	2.5 🖟 🕮 😅	es,-1, 118	9.0
Single Family R2 Area:	54	21.9	21	8.6	33	13.2
Cons./Rec. Area	gi ga karajin <b>jiz</b> a qishiji k	3.1	0	0 :	12	3.1
			Percentage:	30%		70%
Ratio of Run-Off in Combined Sewers to Total Acreage in Section:						0.3

#### Section 3

		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Callected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	85	35.3	N/A	N/A	85	35.3
Highway Business Area:	15 85 E9 16 4 19 60 40	2.4			88 95 FE 14 FE 15 FE 15	14 16 10 <b>24</b> 10 11 11
Single Family R2 Area:	81	32.9			81	32.9
			Percentage:	0%		100%
		Ratio of Run-Off in Combined Sewers to Total Acreage in Section:				

#### Section 4

		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	96	41.0	N/A	N/A	96	41,0
Neighborhood Business Area:	14.5 (14.5 <b>3</b> (15.5 4.5	1.8	方法性·数据的 多形式学	注:107.80克斯斯特	. 3	1.8
Community Business Area:	2	1.4			2	1.4
Highway Business Area:	Electrical participation of the control of the cont	1	ar at figher extended fight	GEN CANADA A COMPANIO	and the state of	14.16 P. 15.61
Single Family R2 Area:	83	33.7			83	33.7
			Percentage:	0%		100%
Ratio of Run-Off in Combined Sewers to Total Acreage in Section:						0.4

#### Section 5

		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	83	35.9	26	10.5	57	25.4
Community Business Area:	30 12 12 <b>14</b> 17 (20 ) 19	8.2	0	0	(1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	8.2
Single Family R2 Area:	68	27.7	26	10.5	42	17.2
			Percentage:	29%		71%
Ratio of Run-Off in Combined Sewers to Total Acreage in Section:						0.3

#### Section 6

	Total Area (Acre)	Total Run-off (cu. ft./s)	Acreage Served by Seperated Sanitary and Storm Sewers	Collected by Storm Sewers (cu. ft./s)	Acreage Served by Combined Sewers	Collected by Combined Sewers (cu. ft./s)
Total Area:	93	40.3	33	15.1	60	25.2
Community Business Area:	1. N. 17. A <b>11</b> S. 12. S. 14.	6.0	5	2.7	6.4	33
Single Family R2 Area:	72	29.4	18	7,4	54	21.9
Multi-Family 5 Area:	2018 10 00 00 <b>100 00 100 100</b> 100 1	5.0	10 2 14 15 16 16 16	5.0	0.0	0 10 10 10 10 10 10 10 10 10 10 10 10 10
			Percentage:	37%		63%
Ratio of Run-Off in Combined Sewers to Total Acreage in Section:						0.3

#### Section 7

		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	80	35.1	65	26.3	16	9.1
Community Business Area:		8.8	0 🗐 💮	0 3	say 25 see 16 to 1	US PROSESSE AT MERCENTER IN
Single Family R2 Area:	65	26.3	65	26.3	0	0
			Percentage:	75%		26%
Ratio of Run-Off in Combined Sewers to Total Acreage In Section:					0,1	

#### Section 8

		total Run-oπ	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	48	20.4	N/A	N/A	48	20.4
Community Business Area:	(1) 为其实外的现在分词	35 (\$14.0 TEXA)		<b>15年 李阳林的</b>	7	4.0
Single Family R2 Area:	41	16.4			41	16.4
			Percentage:	0%		100%
Ratio of Run-Off in Combined Sewers to Total Acreage in Section:						0.4

By Homer Shifrin , Inc. 5/12/2007

#### Appendix C Data and Methodology for Stormwater Run-Off Calculations

Saction	Λ

		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	83	35.5	N/A	N/A	83	35.5
Neighborhood Business Area:	1. 3000 6 4 <b>13</b> 4004 62	<b>7.3</b>	· · · · · · · · · · · · · · · · · · ·	<b>的过去式和过去分词</b>	313 13	73 0 76
Community Business Area:	2	1.3			2	1.3
Cons./Rec. Area:	*	45.74 <b>2.1</b> 6.35.46	THE SECRETARY OF THE PARTY OF	rija a ilgazer <b>enk</b> egarrik	42 Sec. 3 8	2.1
Multi-Family 4 Area:	2	0.9			2	0.9
Two Family:	. 1958 - K. P. <b>4</b> 115 - G. F.	1.9	·····································	的是多的原因的特别基础的	1994 (\$1.00 <b>4</b> 5.00 (\$2.50	1.9
Single Family R2 Area:	54	21.9			54	21.9
			Percentage:	0%		100%
			Ratio of Run-Off in Com	pined Sewers to Total Acre	sage in Section:	0.4

Section	10
---------	----

		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	50	23.9	N/A	N/A	50	23.9
Highway Business Area:	. 12	6.5	Contract to the second	A STATE OF THE PERSONS	12	6.5
Single Family R2 Area:	18	7.5			18	7.5
Two Family 5 Area:	20	9.9	Control of the Contro	型。但是自己的自己的主义	<b>20</b> 特别	9.93

Percentage: 0% Ratio of Run-Off in Combined Sewers to Total Acreage in Section;

#### Section 11

		Total Run-off	Acreage Served by Seperated	Callected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
₹otal Area:	90	39.6	N/A	N/A	90	39.6
Neighborhood Business Area:		4.9	It is it is the best for the later of	Laka ah da <b>ri kw</b> alakenta	aran <b>sa 9</b> a maran	4.9
Single Family R2 Area:	63	25.3			63	25.3
Two Family Area:	19 - 5 - 1	9.3	<b>、ディアの大の機能を必要をある。</b>	<b>数据与心理的对象的对象</b>	19 34 25	9.3
			Percentage:	0%		100%
			Ratio of Run-Off in Com	bined Sewers to Total Acre	age in Section:	0.4

Percentage: 0% Ratio of Run-Off in Combined Sewers to Total Acreage in Section:

			Section 12			
		Total Run-off	Acreage Served by Separated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	85	41.5	N/A	N/A	85	41.5
Neighborhood Business Area:	vicki en <b>g</b> resimo	1.9		riki pingparike Kanis		1.9 Long to 1.9
Downtown Business Area:	26	14.6			26	14.6
Multi-Family 4 Area:	19	9.4		animilatiyanan kara	19	9.4
Two Family:	10	4.9			10	4.9
Single Family R2 Area:	26	- 10.6			~	10,6
			Percentage:	0%		100%
			Ratio of Run-Off in Com	bined Sewers to Total Acr	eage in Section:	0.5

Castina 42

#### Section 13

		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	97	50.5	N/A	N/A	97	50.5
Highway Business Area:	是《李文章》有一个文章	4,0			7 T	4.0
Neighborhood Business Area:	12	6.8			12	6.8
Downtown Business Area:	2015年12月1日 <b>17</b> 16年12日	9.6	A STATE OF THE STA	Chocates analytications	2. 2. <b>3. 17</b> 17 18 18 18 18 18 18 18 18 18 18 18 18 18	9.62
Multi-Family 4 Area:	2	1.0			2	1.0
Multi-Family 5 Area:	(5)4945 B	2.0	Str. (4) 1975 (4) 1985 (2) 1985 (2)		7n2124742	2.0
Two Family:	3	1.7			3	1.7
Single Family R2 Area:	kali ni kond <b>i4</b> / wili isa			twice transfer by out to gain the wife	14 Sec. 1	6 5 7 5 5 7 5 5 6 5 6 5 6 5 6 5 6 5 6 5
Industrial Area:	34	19.1			34	19.1
Cons./Rec. Area:		0.6	2. 产品的基本管理。是可靠新的的数据的证据	为证的对外中国的经济的对象中国的	acempasam <u>a</u> (基础设计)。	0.6
			Percentage:	nº4		100%

Section 14

		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	70	33.0	N/A	N/A	70	33.0
Highway Business Area:	2.5	0.9	1000年至1月至1日日本	140 M. NETHON BUSINESS	2 2	0.9
Cons./Rec. Area:	5	1.4			5	1.4
Single Family R2 Area:	32	12.9			32	12.9
Industrial Area:	31	17.8			31	17.8
			Percentage:	0%		100%
			Ratio of Run-Off in Com	pined Sewers to Total Acr	eage in Section:	0.5

Ratio of Run-Off in Combined Sewers to Total Acreage in Section:

Ratio of Run-Off in Combined Sewers to Total Acreage in Section:

#### Section 15 Total Run-off Acreage Served by Seperated Collected by Storm Acreage Served by Collected by Combined Sewers (cu. ft./s) 10.1 (cu. ft./s) 10.1 Industrial Area: 18 10.1 Percentage: 0% Ratio of Run-Off in Combined Sewers to Total Acreage in Section:

#### Appendix C Data and Methodology for Stormwater Run-Off Calculations

•			Section 16			
	Total Area (Acre)	Total Run-off (cu. ft./s)	Acreage Served by Seperated Sanitary and Storm Sewers	Collected by Storm Sewers (cu. ft./s)	Acreage Served by Combined Sewers	Collected by Combined Sewers (cu. ft./s)
al Area:	137	68.2	79	39.2	58	29.0
hway Business Area:	34.33 - 64. <b>33</b> 37.7243.5	24,6	24	C. 25 3.7.	STATES 19.25 E.S.	11.0
mmunity Business Area:	23	13.3	16	9.0	8	4.3
lti-Family 4 Area:	22	10.9	17. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18	8.1		
gle Family R2 Area:	48	19.4	21	8.5	27	10.9
			Percentage:	57%		43%
			Ratio of Run-Off in Com	bined Sewers to Total Acre	age in Section:	0.2

			Section 17			
	Total Area (Acre)	Total Run-off (cu. ft./s)	Acreage Served by Seperated Sanitary and Storm Sewers	Collected by Storm Sewers (cu. ft./s)	Acreage Served by Combined Sewers	Collected by Combined Sewers (cu. ft./s)
Fotal Area:	84	45.7 35.3	N/A	N/A	84 62	45.7 35.3
Mobil Home Area:	11	5.2			31	5.2
Multi-Family 5 Area:		yee104095 <b>5.1</b> ≥17 30	Percentage:	0%	processing the second s	100%

			Section 18			
		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	60	29.0	0	3.5	60	25.5
Highway Business Area:	21	至 图117 图 15	0	0	21	11.7
Multi-Family 4 Area:	14	6.9	7	3.5	7	3.4
Single Family R2 Area	25	10.4	A CONTRACTOR OF THE STATE OF TH	0	26	10.4
			Percentage:	12%		88%
			Ratio of Run-Off in Comb	ined Sewers to Total Acre	age in Section:	0.4

			Section 19			
		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	84	34.0	84	34.0	N/A	N/A
Single Family R2 Area:	84	34.0	84	34.0	中的特別的特別的	
			Percentage:	100%		0%
			Ratio of Run-Off in Com	bined Sewers to Total Acre	eage in Section:	0.0

			Section 20			
		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	57	22.9	57	22.9	N/A	N/A
Single Family R2 Area:	in all the Army <b>157</b> et 1865 and	22.9	13 - 15 (2-15) (1-15) ( <b>57</b> ) 于760(中央区区区	22.9	<b>可能的,但他们的解析</b> (1995年1995年)	\$15.00 PROPERTY (1995)
			Percentage:	100%		0%
			Ratio of Run-Off in Con	bined Sewers to Total Acr	eage in Section:	0.0

			Section 21			
		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	65	36.6	N/A	N/A	65	36.6
Industrial Area:	63	35.7	AND DESIGNATION OF THE REP		63	35.7
Single Family R2 Area:	1	0.4			1	0.4
Highway Business Area:	1. 1. p. 1. 数 第 , 2. p. 1. p.	0.5	4.4 中國中國的學學是自然學科自然的學科學的學	村里的"神影"中的广播教育的主要	KING PLANE.	0.5
			Percentage:	0%		100%
			Botto of Pur Off in Com	bined Seware to Total Acr	nage in Section:	0.6

Section 22 Largely Undeveloped						
		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	59	20.9	19	45.3	0	0.0
Cons./Rec. Area:	2 2 2	0.4	0 0	0	0.1/0.1	4.0.0
Mobil Home Area:	2	1,1	0	0	0	0.0
Agriculture Area:	2 2 2	0.5	0.22	0	0	0.0
Single Family R1 Area:	53	18.9	19	45.3	0	0.0
			Percentage:	217%		0%
			Patio of Puo-Off in Com	hined Sewers to Total Acre	aage in Section:	nn

			Section 23			
		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	9	3,1	N/A	N/A	9	3.1
Single Family R1 Area:	CALL SEX MENEY 9 SECTIONS	<b>3.1</b> ₹	2.17 多种对象的特殊中心不同的重要的数据	AND STREET AND STREET	40 × 9 × 40 × 40 × 40 × 40 × 40 × 40 × 4	3.1
			Percentage:	0%		100%
	Ratio of Run-Off in Combined Sewers to Total Acresus in Section:					

## Appendix C Data and Methodology for Stormwater Run-Off Calculations

		Section 24			
	Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
cre)	(cu. ft./s)	Sanitary and Storm Sewers	Sawers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
	25.0	N/A	N/A	70	25.0

			Adioago correa by ceperated	Contoucu by Cloth	Acroage contain by	Constitut by Constitution
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	70	25.0	N/A	N/A	70	25.0
Single Family R2 Area:	70	25.0	和學學的學學與其語言學多言	是3年20年1年7月2日	70	25.0
			Percentage:	0%		100%
			Ratio of Run-Off in Comb	pined Sewers to Total Acre	age in Section:	0.4

Section A Largely Undeveloped								
		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined		
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)		
Total Area:	216	95.9	193	12.9	N/A	0.0		
Highway Business Area:	86	48.7	23	12.8		0.0		
Community Business Area:	3	1.9	0	0		0.0		
Single Family R1 Area:	127	45.2	0.3	0.18	Na del Medica del Partico de la	0.0		
•			Percentage:	13%		0%		
Ratio of Run-Off in Combined Sewers to Total Acreage in Section:								

Section B Undeveloped						
		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	133	70.4	N/A	N/A	N/A	N/A
Highway Business Area:	40	22.4		经数据的		5、2012年至10個的特別有效的於
Community Business Area:	32	18.3				
Multi-Family 4 Area:	· 61	29.7	一些。在一种的影響。學科學學學	· 图象 · 中国 · 中国 · 中国 · 中国 · 中国 ·	artoneogygaeseaa (c)	sagi ika <del>k</del> -sab <del>a</del> si
			Percentage:	0%		0%
Ratio of Run-Off In Combined Sewers to Total Acreage in Section:						0.0

			Section C Undevelope	∌d		
	Total Area (Acre)	Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	45	25.4	N/A	N/A	N/A	N/A
Highway Business Area:		25.4		经的证明是不够特殊的证明	<b>进程的编辑解除的图象</b> 定	5 为自己的国际发展的基础的现在
			Percentage:	0%		0%
			Ratio of Run-Off In Com	sined Sewers to Total Acr	eage in Section:	0.0

Section D Undeveloped						
		Total Run-off	Acreage Served by Seperated	Collected by Storm	Acreage Served by	Collected by Combined
	Total Area (Acre)	(cu. ft./s)	Sanitary and Storm Sewers	Sewers (cu. ft./s)	Combined Sewers	Sewers (cu. ft./s)
Total Area:	12	4.4	N/A	N/A	N/A	N/A
Single Family R1 Area:	是一個企業的制度。因此的經濟學	5 - <b>4.4</b> - 8	500年3月2日本中共党等的国际建筑的对抗	以知识。但如此的政治的政治	Proting the Control of the	n in desemble the specifical properties.
·			Percentage:	0%		0%
			Datie of Dun Offin Com	defends Carried as Tubel Service	!- C4!	0.0

			Section E Undevelope	ed		
	Total Area (Acre)	Total Run-off (cu. ft./s)	Acreage Served by Seperated Sanitary and Storm Sewers	Collected by Storm Sewers (cu. ft./s)	Acreage Served by Combined Sewers	Collected by Combined Sewers (cu. ft./s)
Total Area: Single Family R1 Area:	6 . 15 254 <b>8</b> 5 (1975)	2.0 2.0	N/A	N/A	N/A	N/A
			Percentage: Ratio of Run-Off in Comb	0% pined Sewers to Total Acr	eage in Section:	0%

		Se	ection F Partially Undeve	eloped		
	Total Area (Acre)	Total Run-off (cu. ft./s)	Acreage Served by Seperated Sanitary and Storm Sewers	Collected by Storm Sewers (cu. ft./s)	Acreage Served by Combined Sewers	Collected by Combined Sewers (cu. ft./s)
Total Area:	86	30.5	58	20.5	N/A	N/A
Single Family R1 Area:	86	30.5	<ul><li>一つ・コングのかり、58・子が見かりの気を含む。</li></ul>	20,5	(\$6) 14.000 (\$2) 14.000	enclosembleschildenen
			Percentage:	67%	***************************************	0%
			Ratio of Run-Off in Com	hined Sewers to Total Acr	eage in Section:	0.0

## APPENDIX D

City of Wood River
NPDES Permit Reporting Data
and
Additional Data

# WOOD RIVER, ILLINOIS W.W.T.P. CSO DMR'S

MONITORING PERIOD: DEC / 2005

MONTH YEAR

NO CSO DISCHARGES OCCURRED:

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1 /	<b>\</b>
	<b>\</b>

NE:	City of Wood	River Region	al W.W.T.F	. PERMIT NUMBER: IL 0031852	
ADDRES	S: 559 State	Aid Road	• • • • • • • • • • • • • • • • • • • •	· ·	
CITY:	Wcod River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074
RAIN	ESTIMATED	ESTIMATED	CSO OUT	FALLS THAT DISCHARGED:	ESTIMATED DURATION
START DATE:	OURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS):
			A01	Mississippi River	
		1	A01	Mississippi River	
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			AUT	Mississippi River	
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of	this information is requi	red under that Section	n. Failure to do s	ois Revised Statutes, 1991, Chapter (111 %, Section 1039). Disclos to may prevent this form from being processed and could result in y to Forms Management Center.	:ur± 'out
532 2471	an-95		· · · ·	PAGE 1	OF 1

MONITORING PERIOD: OCT / 2005 MONTH YEAR

NO CSO DISCHARGES OCCURRED:

ME:	City of Wood	River Region	al W.W.T.F	. PERMIT NUMBER: IL 0031852	
ADDRESS	S: 559 State	Aid Road			
CITY:	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	254-4074
RAIN	ESTIMATED DURATION	ESTIMATED AMOUNT OF	1	FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	OF EVENT (IN HOURS):	RAINFALL	OUTFALL	, ()	OF CSO DISCHARGE (IN HOURS):
10-20-05	4.5	ø.4ø	A01	Mississippi River	-1
10-31-05	12.5	1.2	A01	Mississippi River	9
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This Agency is authorized to require this information under Illinois Revised Statutes, 1991, Chapter 111 %, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

532 247<u>1</u> : 559 Jan-96

MONITORING PERIOD: NOV 12005

MONTH YEAR

532 2471

ร์ร์รีรี Jan-95

NO CSO DISCHARGES OCCURRED:

PAGE

ME:	City of Wood	River Regions	el W.W.T.F	. PERMIT NUMBER: IL 0031852	*
ADDRES	S: <u>559 State</u>	Aid Road			
CITY:	Wood River	S	TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-	254-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF		FALLS THAT DISCHARGED:	ESTIMATED DURATION
START DATE:	DURATION OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS)
11-14-05	11.5	1.05	A01	Mississippi River	8
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#### NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

CSO DISCHARGE MONITORING REPORT (DMR)

MONITORING	PERIOD: 910	2005
	MONTH	VEAD

532 2471

559 Jan-95

NO CSO DISCHARGES OCCURRED:

PAGE

City of Wood	River Region	al W.W.T.E	. PERMIT NUMBER: IL 00318	52
	Aid Road			
Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618	3-254-4074
ESTIMATED	1	· C	FALLS THAT DISCHARGED:	ESTIMATED DURATION
OF EVENT	RAINFALL	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS)
2.5	Ø.55	A01	Mississippi River	1.75
5	Ø.7Ø	A01	Mississippi River	4
6	2.0	A01	Mississippi River	3.5
14	1.35	A01	Mississippi River	3
2.5	Ø.8	A01	Mississippi River	2
<u> </u>		A01	Mississippi River	: (
. !		A01	Mississippi River	1
		A01	Mississippi River	
		A01 10A	Mississippi River	:
		A01 8	Mississipoi River	
	·	A01 N	Mississippi River	
	On an family of the common of		TOUTH PERFORMENT FOR CO	40 03 05
	Wood River  ESTIMATED DURATION OF EVENT (IN HOURS):  2.5  6  /4  2.5	ESTIMATED ESTIMATED AMOUNT OF EVENT (IN HOURS):    2.5	### STATE: II.  ### STATE: II.  ### ESTIMATED   ESTIMATED   CSO OUT	SS 559 State Aid Rood  Wood River STATE: TI ZIP CODE: 62095 TELEPHONE: 618  ESTIMATED ESTIMATED COS OUTFALLS THAT DISCHARGED:  DURATION AMOUNT OF RAINFALL (IN INCHES): NUMBER:  OUTFALL DESCRIPTION:  1

## CSO DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD: 05/2005

NO CSO DISCHARGES OCCURRED:

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/	$\sim$

VAME:	City of Woo	xi River Region	al W.W.T.F	PERMIT NUMBER: IL 0031852	<u> </u>
ADDR	ESS: 559 Stat	e Aid Road			
CITY:	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074
RAIN	ESTIMATE	į	Į.	FALLS THAT DISCHARGED:	ESTIMATED
STAR DATE	T OF EVENT	RAINFALL	OUTFALL		OF CSO DISCHARGE (IN HOURS)
			A01	Mississippi River	
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			A01	Mississippi River	
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			A01	Mississippi River	
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			<del></del>		•
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			A01	Mississippi River	:
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	[		A01   i	Mississippi River	
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559 Jan-96

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PAGE 1 OF 1

MONITORING PERIOD: JUNE 1 2005 MONTH

NO CSO DISCHARGES OCCURRED:

NAME:	City of Wood				
	): 559 State	Aid Road			
CITY:	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	254-4074
RAIN	ESTIMATED	ESTIMATED	CSO OUT	FALLS THAT DISCHARGED:	ESTIMATED
START DATE:	DURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL, (IN INCHES):	CUTFALL		OF CSO DISCHARGE (IN HOURS)
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6.25.05	1	ø.9	A01	Mississippi River	2.5
	1		A01	Mississippi River 🕟	
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		1	A01	Mississippi River	· ·
			A01	Mississippi River	
	<u> </u>		A01	Mississippi River	•
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		1	A01	Mississippi River	
			A01	Mississippi River	
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-CATTLE -PINCH	<u> </u>	A CENTEY JOSE ME	mer or can that	TANK PERSONALLY CXAMPED	2475
Tuce Murp	-	SCHOTCART PENALT	S for submitting	STATE OF THE WAY DESCRIPTION OF THE STATE OF PRINCIPAL EXECUTIVE OF THE WAY O	77 12 05

532 2471 559 Jan-95

application being denied. This form has been approved by the Forms Management Center.

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MONITORING PERIOD: 07 1 2005 MONTH YEAR

NO CSO DISCHARGES OCCURRED:

NAME:	City of Wood	River Regiona	al W.W.T.F	PERMIT NUMBER: IL 0031852	
ADDRESS	S: <u>559 State</u>	Aid Road			
	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-25	54-4074
RAIN	ESTIMATED	ESTIMATED	CSO OUT	FALLS THAT DISCHARGED:	ESTIMATED
EVENT START DATE:	DURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	DURATION OF CSO DISCHARGE (IN HOURS):
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ruce Murp roject Ma		and our familiar with Our with industry of Determing the entire true accumulate on Schedulity of a	THOSE NOVOLALS MATION: I BELEVE OF COMMETT  S FOR SUBMITTING THE AND MERSON	REDUTED RESPONSE FOR THE SECOND PROPRIET OF T	8 15 05 9 15 05

application being denied. This form has been approved by the Forms Management Center.

532 2471 559 Jan-95

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MONITORING PERIOD: 08 12005 MONTH YEAR

532 2471

659 Jan-96

NO CSO DISCHARGES OCCURRED:

PAGE

r ME:	City of Wood	River Region	al W.W.T.F	PERI	MIT NUMBER: IL 0031852	
ADDRES	S: 559 State	Aid Road				
CITY:	W∞d River		TATE: IL	ZIP CODE: 6	2095 TELEPHONE: 618-	254-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	1	FALLS THAT DISC	HARGED:	ESTIMATED DURATION
START DATE:	DURATION OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DES	CRIPTION:	OF CSO DISCHARGE (IN HOURS):
8-15-05	12	2,25	A01	Mississippi Riv	er ·	8
8-2 <i>5-05</i>	1.5	1.0	A01	Mississippi Riv	er .	2
8-26-05	1.75	Ø.45	A01	Mississippi Riv	er	1.5
8-29-05	1.5	8.2	A01	Mississippi Riv	er »	1.5
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#### CSO DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD: 01 / 2004 MONTH YEAR

532 2471

539 Jan-95

NO CSO DISCHARGES OCCURRED:

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	CITCA OF MOOD	River Regiona	<u> </u>	. PERMIT NUMBER: IL 003185	2		
ADDRES	S: 559 State	Aid Road					
CITY:	₩∞od River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618	-254-	4074	
RAIN	ESTIMATED	ESTIMATED	1	FALLS THAT DISCHARGED:	l l	ESTIMATE DURATION	
EVENT START DATE:	DURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	0	F CSC ISCHA I HOU	) ARG8
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# NATIONAL POLLUTANT-DISCHARGE ELIMINATION STSTEM (NPDES): CSO DISCHARGE MONITORING REPORT (DMR) MONITORING PERIOD: Feb 1 2004 NO CSO DISCHARGES OCCURRED:

	City of Wood		al W.W.T.F	. PERMIT NUMBER: IL 0031852	
ALDRES	S: 559 State	<u>Aid Road</u>			
!	Wood River	s	TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	1	FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	DURATION OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS):
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OPY PAGE 1 OF 1

1 532 2471 20 659 Jan-98

MONITORING PERIOD: MARCHI 2004

NO CSO DISCHARGES OCCURRED:

ME:	City of Wood	River Region	al W.W.T.F	. PERMIT N	NUMBER: IL 0031852	2
ADDRESS	S: 559 State	Aid Road				
	Wood River		STATE: TT.	ZIP CODE: 62095	TELEPHONE: 618-	254-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	i	FALLS THAT DISCHAR	BED:	ESTIMATED DURATION
START DATE:	DURATION OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIP	TION:	OF CSO DISCHARGE (IN HOURS)
03.04-04	7	1.55	A01	Mississippi River		5
03.25.04	4	Ø.35	A01	Mississippi River		2.5
	1					
03.26.04	4	1.25	A01	Mississippi River		3
		· .	A01	Mississippi River		
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			A01	Mississippi River		
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1			A01   I	Mississippi River		
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Bruce Murp Project Ma	nager	THE POSSESSITY OF	THE MEDITALITIES THESE NOTVOLALS MATION I BELIEVE T MO COMMETTE I A S FOR SUBMITTING THE AND MERTSCHAF MATINE MATINE AND MERTSCHAF MATINE MATI	SUBMITTED MODEL FOR MANUAL FOR MA	THE OF PRINCIPAL EXECUTIVE	04 12 04
	om meinted  s Agency is authorized	1 ticht mt w william	INDIADAMEN IN THE PARTY	ois Revised Statutes, 1991, Chap	THE THE CELEBOUTUR PO #30	HO 1 DAY 178AF

This Agency is authorized to require this information under Illimois Revised Statutes, 1991, Chapter 111 ½, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

l 532 2471 PC - 659 Jan-96

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MATIONAL POLLOTANT DISSURANCE LLIMINATION

CSO DISCHARGE MONITORING REPORT (DMR)

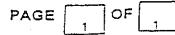
MONITORING PERIOD:	APRIL	12004	
	MONTH	YEAR	

NO CSO DISCHARGES OCCURRED:

AME:	City of Wood	River Region	al W.W.T.F	. PERMIT NUMBER: IL 0031852	
ADDRESS	5: 559 State				
CITY:	Wood River ESTIMATED	ESTIMATED	CSO OUT	ZIP CODE: 62095 TELEPHONE: 618- FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	DURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	T DUTEAT DESCRIPTION:	OF CSO DISCHARGE (IN HOURS)
4.24.04	10,5	1.2	A01	Mississippi River	5
4.3004	1.5	1.6	A01	Mississippi River	2.
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This	: Agency is authorized	to require this inform	ation under Illin	of Revised Statutes, 1991, Chapter 111 %, Section 1039. Discisionary prevent this form from being processed and could result in	your TYAF

1 532 2471 PC 689 Jan-96





MONITORING PERIOD: 05 12004

NO CSO DISCHARGES OCCURRED:

E:	City of Wood	River Region	al W.W.T.F	. PERMIT NUMBER: IL 003185	2
	S: 559 State				
CITY:	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-	254-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF		FALLS THAT DISCHARGED:	ESTIMATED DURATION
START DATE:	DURATION OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS):
5.12.04	2	<i>B</i> .2.	A01	Mississippi River	1
				·	
5.13.04	21	3.2	A01	Mississippi River	20
5-19-04	5	<i>B</i> .85	A01	Mississippi River	3.5
5.25.04	6	Ø.9	A01	Mississippi River	4,25
F-04	6	1.9	A01	Mississippi River	+
5-27-04	4.5	<i>B</i> .75	A01	Mississippi River	6
5-30-64	3	Ø. 75	A01	Mississippi River	3
			A01	Mississippi River	
·			A01	Mississippi River	
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		·			
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of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center. 532 2471 659 Jan-96

MONITORING PERIOD: JWE 12004 MONTH YEAR

NO CSO DISCHARGES OCCURRED:

NE:	City of Wood	River Region	al W.W.T.F.	PERMIT NUMBER: IL 0031852	
-	3: 559 State	Aid Road			
,	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074
RAIN	ESTIMATED	ESTIMATED	1	FALLS THAT DISCHARGED:	ESTIMATED DURATION
START DATE:	DURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS):
6.9.04	6	0.35	A01	Mississippi River	2.5
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		<u> </u>			
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Thi	s Agency is authorize	d to require this infon	mation under Illin	Dis Revised Statutes, 1991, Chapter 111 ¼, Section 1039. Discion may prevent this form from being processed and could result in	ZUIG MO   OAY   YEAR

application being denied. This form has been approved by the Forms Management Center.

532 2471 C 559 Jan-95

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MONITORING PERIOD: JULY 12004 MONTH YEAR NO CSO DISCHARGES OCCURRED:

4

N JE:	City of Wood	River Regiona	al W.W.T.F	PERMIT NUMBER: IL 0031852		
ADDRESS	S: 559 State	Aid Road				
	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074	
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	1	FALLS THAT DISCHARGED:	ESTIMATED DURATION	
EVENT START DATE:	DURATION OF EVENT (IN HOURS):	RAINFALL	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARG (IN HOURS	
7.6.04	8.5	1.1	A01	Mississippi River	4	
7.30-04	8.5	2.7	A01	Mississippi River	4	
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This Agency is authorized to require this information under Illinois Revised Statutes, 1991, Chapter 111 Vi, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in you application being denied. This form has been approved by the Forms Management Center.

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#### CSO DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD: AUGUST 2004

NO CSO DISCHARGES OCCURRED:

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AME:	City of Wood	River Regiona	al W.W.T.F.	PERMIT NUMBER: IL 0031852	·
RESS	S: 559 State	Aid Road			
( * /	Wood River	and the second second second	TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074
RAIN EVENT START DATE:	ESTIMATED DURATION OF EVENT (IN HOURS):	ESTIMATED AMOUNT OF RAINFALL (IN INCHES):	CSO OUTF		ESTIMATED DURATION OF CSO DISCHARGE (IN HOURS):
8-4	2	8.65	A01	Mississippi River	2
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8.25	2.5	1.25	A01	Mississippi River	2.5
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MONITORING PERIOD: SEPT 1 2004

MONTH YEAR

NO CSO DISCHARGES OCCURRED:

OF

PAGE

ME:	City of Wood	River Regiona	el W.W.T.F	. PERMIT NUMBER: IL 0031852	
ADDRES	S: <u>559 State</u>	Aid Road			
CITY:	Wood River	S	TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-	254-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF		FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS):
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This Agency is authorized to require this information under Illinois Revised Statutes, 1991, Chapter 111 ¼, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

î 532 2471 PC 659 Jan-95

MONITORING PERIOD: 10 12004 MONTH YEAR

NO CSO DISCHARGES OCCURRED:

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ME:	City of Wood	River Region	al W.W.T.F	. PER!	MIT NUMBER: IL 0031852	
ADDRESS	6: <u>55</u> 9 State	Aid Road				
CITY:	Wood River		TATE: IL	ZIP CODE: 62	2095 TELEPHONE: 618-	254-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	1	ALLS THAT DISCH	HARGED:	ESTIMATED
START DATE:	DURATION OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESC	CRIPTION:	OF CSO DISCHARGI (IN HOURS)
10-12-04	3,5	ø.4	A01	Mississippi Riv	ver	1.75
10.14.04	16	Ø.65	A01	Mississippi Riv	er	6
10-18-04	16	1.25	A01	Mississippi Riv	er	7.5
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application being denied. This form has been approved by the Forms Management Center.

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CSO DISCHARGE MONITORING REPORT (DMR) MONITORING PERIOD: DEC 12004 NO CSO DISCHARGES OCCURRED: MONTH YEAR

NAME:	City of Wood	River Regiona	L W.W.T.F	. PERMIT NUMBER: IL 0031852	
RES	S: 559 State	Aid Road			
CITY:	Wood River		TATE: TL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	l .	FALLS THAT DISCHARGED:	ESTIMATED DURATION
START DATE:	DURATION OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS)
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application being denied. This form has been approved by the Forms Management Center.

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559 Jan-95

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MONITORING PERIOD: JAN 12005 MONTH YEAR

NO CSO DISCHARGES OCCURRED:

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OF

NAME:	City of Wood	River Region	al W.W.T.F.	. PER	MIT NUMBER: IL 0031852	
ADDRES	S: <u>559 State</u>	Aid Road				
	₩∞od River		TATE: IL	ZIP CODE: 6	2095 TELEPHONE: 618-2	254-4074
RAIN	ESTIMATED	ESTIMATED	CSO OUT	CSO OUTFALLS THAT DISCHARGED:		
START DATE:	OURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	OUTFALL DES	CRIPTION:	DURATION OF CSO DISCHARG (IN HOURS)
1-2-05	13	2.0	A01	Mississippi Riv	ver	6.5
1-4-05	24	2.65	A01	Mississippi Riv	er	16
1-5-05	2.5	1.0	A01	Mississippi Riv	er	2.5
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application being denied. This form has been approved by the Forms Management Center.

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559 Jan-95

MONITORING PERIOD: FEB 1 2005 MONTH YEAR

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559 Jan-95

NO CSO DISCHARGES OCCURRED:

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JE:	City of Wood	River Regiona	al W.W.T.F	. PERMIT NUMBER: IL 003185	2
ADDRES	S: 559 State	Aid Road			-
CITY:	Wood River	S	TATE: IL	ZIP CODE: 62095 TELEPHONE: 618	-254-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	į.	FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS):
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2-13-05	8.5	Ø.7	A01	Mississippi River	4
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MONITORING PERIOD: 03 / 2005

NO CSO DISCHARGES OCCURRED:

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ME:	City of Wood	River Regiona	I W.W.T.F	PERMIT NUMBER: IL 0031852	
ADDRESS	3: <u>559 State</u>	Aid Road			
1	Wood River		TATE: TL	ZIP CODE: 62095 TELEPHONE: 618-254-4074	
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	CSO OUT	FALLS THAT DISCHARGED: ESTIM	ESTIMATED DURATION
EVENT START DATE:	DURATION OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OF CS OUTFALL DESCRIPTION: DISCH	ARGE
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	C3TMPQ PO			Dis Revised Statutes, 1991, Chapter 111 1/2, Section 1039, Disclosure	TRAP

application being denied. This form has been approved by the Forms Management Center.

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MONITORING PERIOD: 04 12005 MONTH YEAR

NO CSO DISCHARGES OCCURRED:

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NAME:	City of Wood	River Regiona	al W.W.T.F	. PER	MIT NUMBER: IL 0031852	
ADDRES	SS: 559 State	Aid Road				
CITY:	Wood River		TATE: <u>TT</u>	ZIP CODE: 6	2095 TELEPHONE: 618-	254-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	1	ALLS THAT DISC	HARGED:	ESTIMATED DURATION
START DATE:	DURATION OF EVENT (IN HOURS):	T RAINFALL	OUTFALL	OUTFALL DES	CRIPTION:	OF CSO DISCHARGE (IN HOURS):
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c	f this information is requ	ilred under that Section	s. Failure to co s	ois Revised Statutes, 1991 क may prevent this form fro e Forms Management Cen	. Chapter 111 1/4, Section 1039. Discloping being processed and could result in ter.	Aort Sare

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559 Jan-96

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MONITORING PERIOD: 01 12002 NO CSO DISCHARGES OCCURRED: MONTH YEAR MAME: CITY OF WOOD RIVER WASTEWATER TREATMENT FAC. PERMIT NUMBER: IL 0031852 STATE AND ROAD ADDRESS: 559 CITY: WOOD RIVER STATE: IL ZIP CODE: 62095 TELEPHONE: 6/8.254.4074 **ESTIMATED ESTIMATED** CSO OUTFALLS THAT DISCHARGED: **ESTIMATED** RAIN DURATION AMOUNT OF DURATION **EVENT** OF CSO RAINFALL OF EVENT OUTFALL START **OUTFALL DESCRIPTION:** DISCHARGE (IN INCHES): (IN HOURS): NUMBER: DATE: (IN HOURS): 01.29.02 500 2.2 OOIA MISSISSIPPI RIVER 4.5

This Agency is authorized to require this information under illinois Revised Statutes, 1991, Chapter 111 ½, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

UL 532 2471 WPC 659 Jan-96

HAME/TITUE PRINCIPAL EXECUTIVE OFFICER

BRUCE MURPHY

PROJECT MANAGER



BIGHATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT



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1202

MO	NITORING PER	NOD: 02 /	2002 YEAR	NO CSO	DISCHARGES OCCUR	RED:
ME: C	TY OF WOOD	RIVER REGI	ONAL W.W	I.T.F. PERM	IIT NUMBER: IL 0031	852
	s: 559 s					
CITY: W	OOD RIVET	<u>ح</u> 5	TATE: エレ	ZIP CODE: 62	.095 TELEPHONE: 618-	254.4074
RAIN	ESTIMATED	2011111111		ALLS THAT DISCH	ARGED:	ESTIMATED DURATION
START DATE:	DURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESC	RIPTION:	OF CSO DISCHARGE (IN HOURS):
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#### CSO DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD: 03 12002

MONTH YEAR

NO CSO DISCHARGES OCCURRED:

INAME:	City of Wood	River Regiona	el W.W.T.F	. PERMIT NUMBER: II, 0031852	
ARES	S: 559 State	Aid Road	· · · · · · · · · · · · · · · · · · ·		
CITY:	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074
RAIN EVENT	ESTIMATED DURATION	ESTIMATED AMOUNT OF	i	FALLS THAT DISCHARGED:	ESTIMATED DURATION
START DATE:	OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL NUMBER:	i culteat negronolició	OF CSO DISCHARGE (IN HOURS):
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cf	this information is requ	d to require this informited under that Section	nation under Illin n. Failure to co	nois Revised Statutes, 1991, Chapter 111 ½, Section 1039. Discloses may prevent this form from being processed and could result in yellows. Management Center.	sure

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OF 1

MONITORING PERIOD: APRIL / 2002 NO CSO DISCHARGES OCCURRED: MONTH YEAR PERMIT NUMBER: IL 0031852 City of Wood River Regional W.W.T.F. NAME: ADDRESS: 559 State Aid Road ZIP CODE: 62095 TELEPHONE: 618-254-4074 STATE: IL CITY: Wood River **ESTIMATED** CSO OUTFALLS THAT DISCHARGED: ESTIMATED **ESTIMATED** RAIN DURATION AMOUNT OF DURATION EVENT OF CSO RAINFALL OF EVENT **OUTFALL** START **OUTFALL DESCRIPTION:** DISCHARGE (IN INCHES): NUMBER: (IN HOURS): DATE: (IN HOURS): 0.80 17.5 A01 Mississippi River - 1 04.67.02 1.4 6.Ø 04.19.02 A01 Mississippi River Ø. 15 04.21.02 100 A01 Mississippi River 6.5 1.1 4.2 04.27.02 A01 Mississippi River AME/TITLE PRINCIPAL EXECUTIVE OFFICER

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This Agency is authorized to require this information under Illinois Revised Statutes, 1991, Chapter 111 1/4, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

532 2471 559 Jan-95

Project Manager





HO : DAT TL.

SIGNATURE OF PRINCIPAL EXECUTIVE

OFFICER OR AUTHORIZED AGENT

MONITORING PERIOD: 05 1 2002 MONTH YEAR

532 2471

Jan-96

NO CSO DISCHARGES OCCURRED:

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ME:	City of Wood	River Regiona	al W.W.T.F	. PERMIT NUMBER: IL 0031852		
<b>\</b>	S: <u>559 State</u> 1	Aid Road _		· .		
	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074	
RAIN	ESTIMATED	ESTIMATED		FALLS THAT DISCHARGED:	ESTIMATED DURATION	
EVENT START DATE:	OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS):	
5.6.02	8.5	0.65	A01	Mississippi River	2.5	
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5.7.02	6.5	2.85	A01	Mississippi River	3.5	
5.12.02	16.5	4.4	A01	Mississippi River	16	
5.16.02	3.75	0.4	A01	Mississippi River	2.25	
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7.02	8.5	0.8	A01	Mississippi River	_5	
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Bruce Murg Project Ma	. 4	AND AM FAMILIAR WIT ON MY HADLEY OF ORTHANNO THE MEDIA TRUE ACCUMATE AN SOURCEAST RENALTIE THE POSSIBLITY OF I 33 USC \$ 1318 14	in the information those provounce thation I believe no commette i a s for submitting the and mattername trange under these	HANNER AND INCHARL FIRST BILL OF ARTHOLINAL EXECUTIVE	05 /3 0Z	
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MONITORING PERIOD: June / 2007 MONTH YEAR

NO CSO DISCHARGES OCCURRED:

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NAME:	City of Wood	River Region	al W.W.T.F	PERMIT NUMBER: IL 0031852	
13					
	S: 559 State		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074
CITY: RAIN	Wood River ESTIMATED	ESTIMATED	CSO OUT	FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	I CHILERI LITERIO COLO III INC	OF CSO DISCHARGE (IN HOURS):
615102	3.0	0.40	A01	Mississippi River	1:25
خوا و ا	3. c	0-90	A01	Mississippi River	3
cl102	o.15	1.75	A01	Mississippi River	2 25
<u> </u>	2.0	0.30	A01	Mississippi River *	1.25
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MC	NITORING PER	\ <u> </u>	2002 YEAR	NO CSO	DISCHARGES OCCUR	RRED:
NAME:	John River	Reason	1 wu	TF PERM	MIT NUMBER: 4 L 003	1852
[				P. O. Box		
CITY: U	^			•	2095 TELEPHONE: 616	?. <i>254-4</i> 074
RAIN	ESTIMATED	ESTIMATED	ſ	ALLS THAT DISCH	ARGED:	ESTIMATED
EVENT START DATE:	DURATION OF EVENT (IN HOURS):	VENT RAINFALL	OUTFALL	OUTFALL DESC	CRIPTION:	DURATION OF CSO DISCHARGE (IN HOURS):
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T	his Agency is authorized this information is rec	ed to require this info	metion under litir on. Fallure to do	sole Revised Statutes, 199 so may prevent this form fr	1, Chapter 111 1/4, Section 1039. Dis	closure in your

application being denied. This form has been approved by the Forms Management Canter.

IL 532 2471 WPC 659 Jan-96

MO	NITORING PER	NOD: AUG 1 MONTH	7.007 YEAR	NO CSO	DISCHARGES OCCUR	RED:
NAME: ( )	Loo River	REGIONAL	WWT	F PERM	IT NUMBER: 11 00 318	ડર.
	S 501 11). H		POBOX :	3 <i>0</i> 0		
CITY: W	000 River	s	TATE:	ZIP CODE:	695 TELEPHONE: 618	-254-1,457
RAIN	ESTIMATED	ESTIMATED	1	ALLS THAT DISCH	ARGED:	ESTIMATED
START DATE:	DURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESC	RIPTION:	OF CSO DISCHARGE (IN HOURS):
8.11.02	5.0	2.05	AOL	MISSISSIPP	1 River	2.5
8.16.07	1.0	0.5	AOI	M13513518P1	River	1.0
8.18.02	3,5	0.75	AOI	MISSISSIPP.	River	4.0
8.19.0Q	1.5	1.25	AOI	M.551551881	River	1.0
8.23.02	Z.O	0.35	A01	M1551251 PP1	River	1.0
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This Agency is authorized to require this information under liftinois Revised Statutes, 1991, Chapter 111 %, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

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IL 532 2471 WPC 659 Jan-96

MONITORING PERIOD Seat NO CSO DISCHARGES OCCURRED: 12002 MONTH YEAR NAME: C. L STP PERMIT NUMBER: ADDRESS: SOL ZIP CODE: 62095 TELEPHONE: 2613. 254, 4014 CITY: Wood STATE: IL **ESTIMATED** ESTIMATED | **CSO OUTFALLS THAT DISCHARGED: ESTIMATED** RAIN DURATION DURATION **AMOUNT OF** EVENT OF CSO RAINFALL OF EVENT START OUTFALL **OUTFALL DESCRIPTION:** DISCHARGE (IN HOURS): (IN INCHES): NUMBER: DATE: (IN HOURS): 5.50 9,17.02 0.60 AUI a.75 AUI 4.0 2.40 9. 19.0D 1.40 7.0 -<del>ee 31</del>11 0.40 AO L 1.75 <u>4. 20.02</u> NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Bruce Murphy

This Agency is authorized to require this information under Iffinois Revised Statutes, 1991, Chapter 111 ½, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

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OFFICER OR AUTHORIZED AGENT

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MONITORING PERIOD: 1 2007 NO CSO DISCHARGES OCCURRED: MONTH YEAR WOOD RIVER STP. NAME: C.L. PERMIT NUMBER: Ferguson Auc P.D Box 300 ADDRESS: Sol W. ZIP CODE: 62095 TELEPHONE: 68, 254. 4074 STATE: \_\_\_\_ CITY: Wood River **ESTIMATED** ESTIMATED CSO OUTFALLS THAT DISCHARGED: **ESTIMATED** RAIN DURATION AMOUNT OF DURATION EVENT OF CSO RAINFALL OF EVENT OUTFALL START **OUTFALL DESCRIPTION:** DISCHARGE (IN INCHES): NUMBER: (IN HOURS): DATE: (IN HOURS): AOL 10.4.0Z 4.Z5 0.25 MISS1351PPL AOI 0.35 2.0 10.6.02 A01 0.8 10.35.02 NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I CENTRY UNDER MEMBELT OF LAW THAT I MAKE MEMBELT EXAMINED AND AN FAMILIAR WITH THE MECHANICAN SUMMITTED MEMBELT EXAMINED AND AN FAMILIAR WITH THE MECHANICAN IN MATERIAL MEMBELT OF MECHANICAN IN MEMBELT MET MEMBELT OF MECHANICAN IN MEMBELT MEMBELT OF MECHANICAN IN SELECTION OF MECHANICAN IN SELECTION OF MEMBELT MEMBE DATE Bruce Murphy 06 02

This Agency is authorized to require this information under Illinois Revised Statutes, 1991, Chapter 111 ½. Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

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MONITORING PERIOD: Nov. 12002 NO CSO DISCHARGES OCCURRED: NAME: CITY OF WOOD RIVER WWTF PERMIT NUMBER: 工L 003185Z ADDRESS: 559 STATE AID ROAD ZIP CODE: 62095 TELEPHONE: 618.254.4074 STATE: IL CITY: WOOD RIVER **ESTIMATED** ESTIMATED | CSO OUTFALLS THAT DISCHARGED: **ESTIMATED** RAIN DURATION AMOUNT OF DURATION **EVENT** OF CSO RAINFALL OF EVENT OUTFALL START **OUTFALL DESCRIPTION:** DISCHARGE (IN INCHES): NUMBER: (IN HOURS): DATE: (IN HOURS): MISSISSIPPI RIVER A 0.1. Ø.45 11.5.2002 I CERTIFY UNDER PENALTY OF LAW THAT I MAKE PERSONALLY EXAMINED AND AM FAMILIAN WITH THE MECHALITY SUBMITTED MEREN AND BASED CON AN PAUGHT OF THEMSE PROPOSED, MINISTED METEROLATED, REPORTMENT, THE SHEPHING, THE SHEPHING, THE SHEPHING, AND COMPATION BELIEVE. THE SUMMETTED PROPOSEDING TRUE ACCURATE AND COMPATION OF THE THEMSE AND EXPORTANCE OF THE THEMSE AND CONTRACTOR OF THE THEMSE AND CONTRA HAME/TITLE PRINCIPAL EXECUTIVE OFFICER CATE Bruce Murphy 02 Project Manager OFFICER OR AUTHORIZED AGENT This Agency is authorized to require this information under (Illinois Revised Statutes, 1991, Chapter 111 %, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your

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application being denied. This form has been approved by the Forms Management Center.

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MONITORING PERIOD: Dec 1 ZCOZ NO CSO DISCHARGES OCCURRED: MONTH YEAR NAME: (), PERMIT NUMBER: 16031852 Wood Quec P.O Box 300 Ferrenson STATE: IL ZIP CODE: 63095 TELEPHONE: 619. 354, 4074 **ESTIMATED** CSO OUTFALLS THAT DISCHARGED: ESTIMATED **ESTIMATED** RAIN DURATION AMOUNT OF DURATION **EVENT** OF CSO RAINFALL OF EVENT OUTFALL START **OUTFALL DESCRIPTION:** DISCHARGE (IN INCHES): (IN HOURS): NUMBER: DATE: (IN HOURS): 13.5 1.10 12.18.CZ AO I MISSISSIPPI NAME/TITLE PRINCIPAL EXECUTIVE OFFICER DATE Bruce Murphy 09/03 Project Manager SIGNATURE OF PRINCIPAL EXECUTIVE TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT This Agency is authorized to require this information under Illinois Revised Statutes, 1991, Chapter 111 1/2, Section 1039. Disclosure

This Agency is authorized to require this information under Illinois Revised Statutes, 1991, Chapter 111 ½, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

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IL 532 2471 WPC 659 Jan-96



	MON	ITORING PER	IOD: // / MONTH	2003 YEAR	NO CSO	DISCHARGES OCCUR	RED: X	
NAM	E: ()	ty of w	coo River	STP	PERM	MT NUMBER:   Loobis	352 352	
3		9	Ferbuson	P.0	Sn: 300			
CITY	: Wa	on River	S.	TATE: エム	ZIP CODE: ८३८	COS TELEPHONE: 618	.254 - 4074	
RAI	N	ESTIMATED		1	ALLS THAT DISCH	ARGED:	ESTIMATE DURATION	
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		on PRÍNTED s Agency is authoriz	ed to require this info	mation under Illir	nois Revised Statutes, 199	1, Chapter 111 ½, Section 1039. Dis	closure	

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WPC 659 Jan-96

	MONITORING PER	NOD: OZ 1	ट3 YEAR	NO CSO	DISCHARGES OCCUR	RED:
NAME:	CETY OF WE	oo River	STP	PERM	IIT NUMBER: エムの3i	<u>857</u>
1	<b>SS</b> : <u>501 ယိ.</u> F			n 300		
CITY:	Joos Rwer	s	TATE: 🛨	ZIP CODE: 62	موج TELEPHONE: 613.	254-4074
RAIN	ESTIMATED	•	CSO OUTF	ALLS THAT DISCH	- " -	ESTIMATED DURATION
STAR DATE	OF EVENT	RAINFALL	OUTFALL	OUTFALL DESC	RIPTION:	OF CSO DISCHARGI (IN HOURS)
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2.18.0	3 0.5	Snow	A01	MISSISSIPPI	River	1.0
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IL 532 2471 WPC 659 Jan-96

MONITORING PERIOD: 03 12003 NO CSO DISCHARGES OCCURRED: MONTH YEAR PERMIT NUMBER: IL 0031852 City of Wood River Regional W.W.T.F. ADDRESS: 559 State Aid Road STATE: IL ZIP CODE: 62095 TELEPHONE: 618-254-4074 CITY: Wood River **ESTIMATED** ESTIMATED CSO OUTFALLS THAT DISCHARGED: **ESTIMATED** RAIN DURATION AMOUNT OF DURATION **EVENT** OF CSO RAINFALL OF EVENT OUTFALL START **OUTFALL DESCRIPTION:** DISCHARGE (IN INCHES): NUMBER: (IN HOURS): DATE: (IN HOURS): 1.25 0.6 3-13 A01 Mississippi River 3.75 2.75 0.45 3.19 A01 Mississippi River 0.9 Ø.10 Ø. 10 A01 3.20 Mississippi River 3.0 3.28 Ø. 3Ø A01 Mississippi River A01 Mississippi River €. A01 Mississippi River A01 Mississippi River A01 Mississippi River . A01 Mississippi River A01 Mississippi River A01 Mississippi River I CEPTER UNDER PENALTY OF LAW THAT I LAVE PERSONALLY EXAMINED AND AN EARLY OF LAW THAT I LAVE PERSONALLY EXAMINED AND AN EARLY OF THE INFORMATION EXAMINED THE MESONATION OF STATE AND ADMINISTRATION AME/TITLE PHINGIPAL EXECUTIVE OFFICER SATE Bruce Murphy 03

This Agency is authorized to require this Information under Illinois Revised Statutes, 1991, Chapter 111 %, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

532 2471 559 Jan-98

Project Manager

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PAGE

SIGNATURE OF PRINCIPAL EXECUTIVE

OF

MO DAY TEAM

MONITORING PERIOD: APRIL 1 200 3

NO CSO DISCHARGES OCCURRED:

OF

PAGE

	VE:	City of Wood	River Region	al W.W.T.F	. PERMIT NUMBER: IL 003185	52
ADO	DRES	S: 559 State	Aid Road			
CIT	_	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618	-254-4074
RA		ESTIMATED	ESTIMATED AMOUNT OF	1	FALLS THAT DISCHARGED:	ESTIMATED DURATION
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4.25	7.03	4	0.60	A01	Mississippi River	4
	3.03	1.75	0.3	A01	Mississippi River	7.25
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532 2471 559 Jan-98

MONITORING PERIOD: MAY 1 2003

NO CSO DISCHARGES OCCURRED:

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ME:	City of Wood	River Regiona	al W.W.T.F	. PERMIT NUMBER: IL 0031852	<u> </u>
ADDRES	S: <u>559 State</u>	Aid Road			
CITY:	Wood River	s	TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-	254-4074
RAIN	ESTIMATED DURATION	ESTIMATED AMOUNT OF	Į.	FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS)
5.4	8	1.2	A01	Mississippi River '	3.5
5.8	3	Ø.3	A01	Mississippi River	2.5
5.10	3	1.15	A01	Mississippi River	2.5
5.30	2	Ø.45	A01	Mississippi River *	1.0
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is his Agency is authorized to require this information under Illinois Revised Statutes, 1991, Chapter 111 ½, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being cenied. This form has been approved by the Forms Management Center.

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MONITORING PERIOD:	06 1	2003
•	MONTH	_

NO CSO DISCHARGES OCCURRED:

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<u>.</u>		MONTH	YEAR		
ΛΞ:	City of Wood	River Regiona	al W.W.T.F	. PERMIT NUMBER: IL 0031852	
ADDRES	S: <u>559 State</u>	<u>Aid Road</u>			
CITY:	Wood River	s	TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-	254-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	1	FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	DURATION OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	! UBTEALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS)
6 10.03	2.5	0.45	A01	Mississippi River	3
(0.12.03	2.5	1.45	A01	Mississippi River	2.
6.26.03	8	3.45	A01	Mississippi River	7
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NO CSO DISCHARGES OCCURRED: MONITORING PERIOD: C7 / 03

4		MONTH	YEAR		
NE:	City of Wood	River Regiona	l W.W.T.F	PERMIT NUMBER: IL 0031852	
ADDRES	S: 559 State	Aid Road	<del></del>		· / · · · · · · · · · · · · · · · · · ·
CITY:	Wood River	S	TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-	254-4074
RAIN	ESTIMATED	ESTIMATED		FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	DURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL	1 / 111 ( = X )   A = Q / ( D   D )   U   NO (	OF CSO DISCHARGE (IN HOURS)
7/18/03	5.5	1.25	A01	Mississippi River .	2.0
7/22/03	1.5	0.35	À01	Mississippi River	1.0
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			A01	Mississippi River *	
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MONITORING PERIOD: 08 /2003 MONTH YEAR

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559 Jan-96

NO CSO DISCHARGES OCCURRED:

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WE:	CIES OF WOOD	River Regiona	11 W.W.1.F	. PERMIT NUMBER: IL 003185	
ADDRES	S: 559 State	Aid Road			
CITY:	Wood River	S	TATE: IL	ZIP CODE: 62095 TELEPHONE: 618	-254-4074
RAIN	ESTIMATED DURATION	ESTIMATED AMOUNT OF	i	FALLS THAT DISCHARGED:	ESTIMATED DURATION
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MONITORING PERIOD: Sept 1 2003

MONTH YEAR

NO CSO DISCHARGES OCCURRED:

N 1E:	City of Wood	River Regiona	al W.W.T.F	. PERMIT NUMBER: IL 0031852	·
ADDRES:	S: 559 State	Aid Road			
CITY:	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	ſ	FALLS THAT DISCHARGED:	ESTIMATED DURATION
START DATE:	OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	I OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS):
9.1.03	7.5	1.85	A01	Mississippi River	5.0
9.26.03	3,0	,85	A01	Mississippi River	1.5
			A01	Mississippi River	
			<b>A0</b> 1	Mississippi River	
\$5% \$4.34			A01	Mississippi River	
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## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CSO DISCHARGE MONITORING REPORT (DMR)

Mo	ONITORING PER	NOD: Oct /	ZCO3 YEAR	NO CSO DISCHARGES OCCUR	RED:
NAME:	City of Wood	River Regiona	al W.W.T.F	. PERMIT NUMBER: IL 0031852	
ADDRES	S: <u>559 State</u>	Aid Road			· · · · · · · · · · · · · · · · · · ·
CITY:	Wood River	<u>_</u> S	TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-	254-4074
RAIN	ESTIMATED	ESTIMATED AMOUNT OF	1	FALLS THAT DISCHARGED:	ESTIMATED DURATION
START DATE:	OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL		OF CSO DISCHARGE (IN HOURS)
10.9.03	2.5	0.45	A01	Mississippi River	3.0
			A01	Mississippi River	
			A01	   Mississippi River	
			A01	Mississippi River	
2.2			<b>A</b> 01	Mississippi River	
		.	A01	Mississippi River	
			A01	Mississippi River	,
			A01	Mississippi River	
-			A01	Mississippi River	÷
		.	A01	Mississippi River	
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of ap 532 247 <u>1</u>	this information is requipplication being cenied	ired under that Section	n. Failure to do :	nois Revised Statutes, 1991, Chapter 111 ¼. Section 1039. Dischesso may prevent this form from being processed and could result in a Forms Management Center.  PAGE  PAGE	

1 532 2471 PC 559 Ja

559 Jan-96

## CSO DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD: NOV 1 2003

NO CSO DISCHARGES OCCURRED:

_IAME:	City of Wood	River Regiona	al W.W.T.F	. PERMIT NUMBER: IL 0031852	
ALDRESS	S: 559 State	Aid Road			
	Wood River		TATE: IL	ZIP CODE: 62095 TELEPHONE: 618-2	54-4074
RAIN	ESTIMATED	1	i .	FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	DURATION OF EVENT (IN HOURS):	AMOUNT OF RAINFALL (IN INCHES):	OUTFALL		OF CSO DISCHARGE (IN HOURS):
11-1-03	7	Ø. 5	A01	Mississippi River .	2
11-17-03	6.5	4.0	A01	Mississippi River	4
11-18-03	<i>B</i> -5	B.\$5	A01	Mississippi River	2.5
			A01	* Same rain event as 11.17.03 however, * event covered two sampling days Mississippi River	
		·	A01	Mississippi River	
			A01	Mississippi River	
			A01	Mississippi River	
			A01	Mississippi River	
·			A01	Mississippi River	
			A01	Mississippi River	
			A01   i	Mississippi River	
Bruce Muri Project Ma		and are Familias will On are moduser of Odtarung the metor True accument assume Scienciant behalite The Possible it of	THE THE WHOMASTON THOSE MOVOLALS THATTON: I BELIEVE T NO COMMITTE : A S FOR SUBMITTHE THATTON AND MOREOTE THATTON TO THE THATTON THATTON THE THATTON THATTON THE THATTON THATTON	SUMMER OF PERONALLY EXAMINED  SUMMER OF PERON AND SUSSED  SUMMER OF PERON AND SUSSED  SUMMER OF PARTY PERON AND SUSSED  SUMMER OF PARTY PERON AND SUMMER OF PRINCIPAL EXECUTIVE  SUMMER AND SUMMER SUMMER SUMMER OF PRINCIPAL EXECUTIVE  SUMMER AND SUMMER SUMMER SUMMER OF PRINCIPAL EXECUTIVE  SUMMER AND SUMMER SUMMER SUMMER SUMMER OF PRINCIPAL EXECUTIVE  OFFICER OR AUTHORIZED ACENT	01 08 04 00 00 04
Thi	is Agency is authorize	d to require this inform	nation under Illin	statutes may mature fines an so	sure

, 532 2471 C 559 Jan-95 CORRECTED

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OF 1

## NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) CSO DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD: DEC 12003

MONTH YEAR

NO CSO DISCHARGES OCCURRED:

<u> </u>					
ME:	City of Wood	River Region	al W.W.T.F	. PERMIT NUMBER: IL 00	31852 .
ADDRESS	S: 559 State	Aid Road			
CITY:	Wood River	S	TATE: 77.	ZIP CODE: 62095 TELEPHONE:	618-254-4074
RAIN	ESTIMATED DURATION	ESTIMATED AMOUNT OF	1	FALLS THAT DISCHARGED:	ESTIMATED DURATION
EVENT START DATE:	OF EVENT (IN HOURS):	RAINFALL (IN INCHES):	OUTFALL	OUTFALL DESCRIPTION:	OF CSO DISCHARGE (IN HOURS):
12.9.03	Ø.5	Ø.15	A01	Mississippi River	1.0
12 22.17	11	Ø.95	3.04		6.0
12.22.03		ا <i>15 ولو</i>	A01	Mississippi River	4.2
			A01	Mississippi River	
1			A01	Mississippi River	
			A01	Mississippi River	
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			A01 1	Aississippi River	
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ect Ma	oa saktes maget		Trailer under chies	THE THE WAST I TOO MACH MICHARTURE OF PRINCIPAL EXEC	שאחעצ
Thi	s Agency is authorized	to require this inform	nation under Illin	ois Revised Statutes, 1991, Chapter 111 ½, Section 103	9. Disclosure

of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being genied. This form has been approved by the Forms Management Center.

1 532 2471 PC 559 Jan-96

COPY

PAGE

OF 1

## WOOD RIVER, ILLINOIS W.W.T.P. NPDES DMR'S

PERMITTEE NA. ORESS (Include Facility Name/Location if different)

NAME WOOD RIVER STP, CITY OF NATIONAL POLUTA SCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) CSO (OVER 4.8 MGD IN 84" INTR) (2-16) (17-19) 12345 IL0031852 A01 (SUBR 06) Form Approved. ADDRESS 501 W. FERGUSON AVE PERMIT NUMBER DISCHARGE NUMBER F - FINAL OMB No. 2040-0004. P.O. BOX 300 MAJOR Approval expires 05-31-98 WOOD RIVER. 62095 MONITORING PERIOD CSO OCR 0298 WOOD RIVER STP. CITY OF FACILITY YEAR DAY YEAR MO DAY MO \*\*\* LOCATION WOOD RIVER, IL 62095 FROM TÔ \*\*\* NO DISCHARGE х 05 09 01 05 09 30 NOTE: Read instructions before completing this form. (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) ATTN: QUANTITY OR CONCENTRATION QUANTITY OR LOADING 4 Card Only) FREQUENCY (3 Card Only) SAMPLE PARAMETER (54-61) (46-53) (38-45) (46-53) (34-61) £Χ TYPE ANALYSIS (32-37) MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS AVERAGE 62-63 (64-68) (69-70) 19) GR BOD, 5-DAY 375 SAMPLE 0 \*\*\*\* \*\*\*\* \*\*\*\* 47 \*\*\*\* MEASUREMENT (20 DEG, C) \*\*\*\* 00310 1 0 0 REPORT PERMIT DLY When DISTORAB \*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\* EFFLUENT GROSS VALUE REQUIREMENT MG/L MO. AVG SOLIDS, TOTAL 19) 375 GR SAMPLE 114 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT SUSPENDED \*\*\* 00530 1 0 0 REPORT PERMIT ? \*\*\*\* \*\*\*\* \*\*\* DLY When DIS GRAB \*\*\* EFFLUENT GROSS VALUE REQUIREMENT MO. AVG MG/L 375 COLIFORM, FECAL SAMPLE (13)GR Ò \*\*\*\*\* 1900000 \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT GENERAL \*\*\* 74055 1 0 1 # / 100 ML DAILY WH REPORT PERMIT \*\*\* \*\*\*\* \*\*\*\* \*\*\*\*\* GRAB DISCHR. **EFFLUENT GROSS VALUE** REQUIREMENT \*\*\*\*\* 375 FLOW. TOTAL SAMPLE 3R) ES 0 31.00 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT \*\*\*\*\* \*\*\*\* \*\*\* \*\*\*\* DAILY CONTIN EFFLUENT GROSS VALUE REQUIREMENT MO. TOTAL M GAL SAMPLE MEASUREMENT PERMIT C351356 REQUIREMENT SAMPLE MEASUREMENT N. B. Wall PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT 400 REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY\_RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS **BRUCE MURPHY** TRUE, ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING PROJECT MANAGER 05 THE POSSIBILITY OF FINE AND IMPRIBONMENT. SEE 18 U.S.C. so 1001 AND 618 254-4074 10 11 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. se 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 3 years.) AREA OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO DAY TYPED OR PRINTED COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) e-DMR 10.15.05 BC RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 5 FLOWS ESTIMATED DUE TO NO FLOW METER.

(REPLACES EPA FORM T-40 WHICH NOT BE USED.)

EPA Form 3320-1 (Rev. 8 2/2 revious editions may be used.

PERMITTEE NAM! ESS (Include Facility Name/Loc f different)					AL POLUT		E ELIMINATI	ORT (	DMR)		_			
NAME WOL RIVER STP. C					(2-16)	S.F. *		(17-19)		CSO (OVER 4.8 N			•	2345
ADDRESS 501 W, FERGUSON A	<u>VE</u>		-  -	LOO31	852 MIT NUMBER		— <u> </u>	A01 HIGHARDE NUM		(SUBR 06) F - FINAL		Approx No 202	40-0004.	(34)
P.O. BOX 300 WOOD RIVER,	6209	<del> </del>	_							MAJOR			pires 05-31	-98
FACILITY WOOD RIVER STP. C		<u></u>	<b></b>	YEAR		DAY DAY	YEAR	MO )	DAY	CSO	OCR (			• •
LOCATION WOOD RIVER, IL 620			FROM	05		01 10	05	<del> </del>	31	*** NO DISC	HARGE	х	***	
ATTN:			<b>-</b> 		·	24-25)	(26-27)		(30-31)	NOTE: Read instruc	tions befor	e com	pleting this	form.
PARAMETER		(3 Card Only) QI (46-53)	JANTITY OR LO. 54-61			(4 Card Or.	ily ) -45 j		TY OR COL 6-53 )	NCENTRATION (54-61)		NO.	FREQUENCY OF	SAMPLE
(32-37)		AVERAGE	MAXIMU		UNITS	MIN	MUM		RAGE	MAXIMUM	UNITS	EX (62-63)	(64-68)	(69-70)
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	****	****	*		***	***	125		*****	( 19)	0	375	GR
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT		****	*	****		***	REP MO	ORT AVG	*****	MG/L		OLY When Dis	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	****	****	*		***	***	191		****	( 19)	0	375	GR
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FLOW, TOTAL	SAMPLE MEASUREMENT	*****	19.00		( 3R)	***	***	***	***	*****		0	375	ES
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TYPED OR PRINTED	33 U.	B.C. ss 1319. (Penalties )	under these sta	atutes may	include fine	s up to		GNATURE OF OFFICER OR		150		ABER		MO DAY
COMMENT AND EXPLANATION OF ANY VIOLATION		· ——	,			- 7-4-019				1 CO[	<u> </u>		<u> </u>	
RECIEVING WATER: MISSIS FLOWS ESTIMATED DUE TO		_	BER OF D	AYS O	F DISCH	HARGE:	2	e	-D/	MR 11.8.0	25	ВС		

EPA Form 3320-1 (Rev. 8-95)Previous editions may be used.

(REPLACES EPA FORM T-40 WHICH AND NOT BE USED.)

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PERMITTEE N. ORESS (Include Facility Name/Location if different)  NAME WOOD RIVER STP, C	ITY OF				NAL POLUTA SCHARG (2-16)			N SYSTEM (NPDES) PORT (DMR) (17-19)	CSO (OVER 4.8	MGD IN 84	\$" INT	rr)	and the
ADDRESS 501 W. FERGUSON A				IL0031				A01	(SUBR 06)	Form	Appr	oved.	12345
P.O. BOX 300				PE	RMIT NUMBE	R	<u> </u>	ISCHARGE NUMBER	F - FINAL			040-0004.	
WOOD RIVER,		5			МО	NITORING	PERIOD	1	MAJOR			xpires 05-3	1-98
FACHITY WOOD RIVER STP, C			····	YEAR	MO	DAY	YEAR	MO DAY	CSO		0298	1	
LOCATION WOOD RIVER, IL 620	195		FROM	(2021)	11	01 10		11 30	*** NO DK NOTE: Read Insti	SCHARGE	ore co	*** mpleting ti	als form.
ATTN:		(3 Card Only) O	UANTITY OR LO	(20-21) ADING	(22-23) (	(4 Card On	(26-27) ly)	(28-29) (30-31) QUANTITY OR COL			1	FREQUENCY	T
PARAMETER (32-37)		(46-53)	(54-61			(38-		(46-53)	(54-61)		NO.	OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMU	)M	UNITS	MINI	MUM	AVERAGE	MAXIMUM	UNITS	(62-63	(64-68)	(69-70)
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	****	****	*	استعاضا	***	**	112	*****	( 19)	0	375	GR
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74055 1 0 1 EFFLUENT GROSS VALUE	1 0 1 PERMIT		****	*	***	***	<b>**</b>	****	REPORT	#/100 N	1	DAILY WH DISCHR	GRAB
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TYPED OR PRINTED	33	E POSSIBILITY OF FINE AND IM U.S.C. 96 1319. (Penalties II	nder these state	utes may i	include fines	up to		NATURE OF PRINCIPAL			4074 BER	<del>                                     </del>	2 06
COMMENT AND EXPLANATION OF ANY VIOLATIO		0,000 and or maximum imp	risonment of be	ilween 6 h	nonins and S	years.)	<u>`</u>	OFFICER OR AUTHORIZ	EU AGENT &	DE NUM		I TEME	AO DAY
RECIEVING WATER: MISSISS FLOWS ESTIMATED DUE TO	IPPI RIVER.	NUMBE	R OF DAY		DISCHAI			e-DMR	12.7.05	ВС		PAGE 1	es.

RMITTEE NAME/AL S (Include cility Name/Location different) ME WOOD RIVER STP, C		NATIO! DI	SCHAR( (2-16)	SE MON	MORIN				CSO (OVER 4	8 MGD IN 8	4" INT	R)				
RESS 501 W. FERGUSON A	VE.		_	IL0031				A	01		(SUBR 06)	Forn	1 Appr	oved.	1234	5
P.O. BOX 300			_	PE	RMIT NUME	ER		DI:	ICHARGE N	LIMITER	F - FINAL	OME	No. 20	)40-0004.		
WOOD RIVER, IL					MC	NITORI	ING PE	RIOD		——- <sub>1</sub>	MAJOR	App	oval e	cpires 05	-31-98	
WOOD RIVER STP, C	ITY OF		<del></del> -	YEAR	MO	DAY		ÆAR	MO	DAY	cso	OCR	0298	,		
MOOD RIVER, IL 620	95		FROM	05	12	01	το [	05	12	31		DISCHARGE	X	***		
N:				(20-21)	(22-23)		<del></del>	5-27)	(28-29)		NOTE: Read In	structions be	ore co			۲m.
PARAMETER		(3 Card Only) Q4 (46-53)	UANTITY OR LO. (54-61			(4 Car	d Only) (38-45)			11Y OR CO! 46-53)	NCENTRATION (54-61)		NO.	FREQUENC OF	, S∕	AMPLE
(32-37)		AVERAGE	MAXIMU		UNITS		MINIMUM			/ERAGE	MAXIMUM	UNITS	EX	ANALYSIS	]	TYPE
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NAME/TITLE PRINCIPAL EXECUTIVE OFFICE	T AND A	IFY UNDER PENALTY OF LA A FAMILIAR WITH THE INFO	RMATION SUBMIT	TED HEREI	N AND BASE	O				. 1	1	TELEPHON	1		ATE	-
BRUCE MURPHY ORNANGER  ON MY INJURY OF THOSE INDIVIDUAL OF THOSE I				ATELY RES MINITED IN RE THAT T NFORMATION	PONSIBLE F IFORMATION THERE ARE N, INCLUDIN	OR IS 3					-phy	618   254	4074	06	01	06
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MIMENT AND EXPLANATION OF ANY VIOLATION		<del></del>	risomment of De	CHEST OF	wars and	> years)			- 10211 01		LEGROCITI	CODE   NO.		,5-47		
ECIEVING WATER: MISSISS OWS ESTIMATED DUE TO I	IPPI RIVER. NO FLOW MET	NUMBE	R OF DAY			RGE: (	0	e	-D	MR	1.6.06	вс				

PERMITTEE N DORESS (Include Facility Nam. on If different)  NAME W J RIVER STP, C					SCHA. (2-16)	DISCHARGE MONITOR	ING RE	PORT (17-1	(DMR)	CSO (OVER 4	1.8 MG					
ADDRESS 501 W, FERGUSON A	VE.			L0031	852 RMIT NUMBE			<u> 401</u>		(SUBR 06)			Appro		12345	
P.O. BOX 300	6200			PEI	TMIT NUMBER		<u></u>	HSCHARGE H	-	F - FINAL				40-0004.		
WOOD RIVER, II FACILITY WOOD RIVER STP, C		5	-			ITORING I				MAJOR CSO				pires 05-3	1-98	
LOCATION WOOD RIVER, IL 620			FROM	YEAR	MO	DAY 01 TO	YEAR	MO	DAY		blanu	OCR	0296	***		
ATTN:		<del></del>	<del></del>	(20-21)	<u> </u>	01 TO	(26-27)	(28-29)	(10-31)	NOTE: Read In	DISCH.		ore co		his for	rth.
PARAMETER			UANTITY OR LO	ADING	1-2-02/ 12	( Card Only	,)	QUAN	TITY OR CO	NCENTRATION	<del>, , , _ , , , , , , , , , , , , , , , ,</del>		100	FREQUENCY	54	MPLE
(32-37)	$\sim$	(46-53)	(34-61)			(38-4		<u> </u>	46-53)	(54-61)			NO.	OF ANALYSIS		MPLE YPE
		AVERAGE	MAXIMU	JM .	UNITS	MINIM	KUM	^	VERAGE	MUMIXAM		UNITS	(62-63)	(64-68)	(6	9-70)
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	*****	*****		44.44	****	**	58		****	(	19)	0	375	GR	
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FLOW, TOTAL	SAMPLE MEASUREMENT	*****	6.0	· · · · · · · · · · · · · · · · · · ·	( 3R)	****	**		***	*****			0	375	ES	
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BRUCE MURPHY PROJECT MANAGER	OB TRU \$1G	taming the information, i ue, accurate and comple inificant penalties for bus	Believe the Sur Te. 1 AM AWAR WITTING FALSE IN	rimitted in Re that t Neormatics	Formation is Here are N. Including		6	Zune	e M	Ingely		1	4057			**
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RECIEVING WATER: MISSISS FLOWS ESTIMATED DUE TO	SIPPI RIVER. NO FLOW MI		MUNBER		6 <sup>33</sup>	ISCHAR(		<del> </del>		E	3C	····		PAG. J.	O#	1

PERMITTEE N ADDRESS (Include Facility Name Ion If different)	<b></b>				NATION DI	SCHA. 🔟			SYSTEM (NPDES)	000 (0000 40		- 121 6 4	at 10.17		·
NAME W. DRIVER STP. CI					L0031	(2-16)			(17-19)	CSO (OVER 4.8	MGL	Porm Form		•	2345
ADDRESS 501 W. FERGUSON A	/ <u>L.</u>		<del></del>			RMIT NUMBER			O1	(SUBR 06) F-FINAL			• •	)40-0004,	2343
P.O. BOX 300			<del></del>			THE HOUSE	لسسب	L	SCHOOL NOWSER	MAJOR					1.00
WOOD RIVER, IL		195	<del></del>			MON	TORING P	ERIOD				, .		kpires 05-31	1-20
FACRLITY WOOD RIVER STP, CI		<del></del>			YEAR		DAY	YEAR	MO DAY	CSO		OCR	0298	1	
LOCATION WOOD RIVER, IL 620	95		<del></del>	FROM	02		)1 TO	02	08 31	*** NO D NOTE: Read ins		ARGE	100	***	le form
ATTN:		70	Card Only) Cit	UANTITY OR LO	(20-21)	<del>`</del>	(-25 ) (4 Cord Only		(28-29) (30-31) QUANTITY OR CO				1	FREQUENCY	
PARAMETER			(46-33)	(54.61			(38-4.	<u> </u>	(46-53)	(54-61)			NO.	OF AMALYSIS	SAMPLE TYPE
(32-37)			AVERAGE	MAXIMU	М	UNITS	MINIM	JM	AVERAGE	MAXIMUM		UNITS	(62-63)	1	(69-20)
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREME	NT	***	****	ŧ I		****	t #	44	****	(	19)	0	375	GR
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREME	NT	****	****	k %	****	***	<b>†</b> #	REPORT MO. AVG	****	7,	IG/L		DLY When DIS	GRAB
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00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT	INT	****	****	k	***	***	ł*	REPORT MO. AVG	*****	-   <sub>N</sub>	IG/L		DLY When DIS	gRAB .
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BRUCE MURPHY PROJECT MANAGER	{	OBTAINING TRUE, A	iduiry of those into 3 the information, i ccurate and compu nt penalties for su	i believe the si Ete. I Am Awa	VEMITTED	INFORMATION IS THERE ARE		On	mee//fr	phy					
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RECIEVING WATER: MISSISS FLOWS ESTIMATED DUE TO	SIPPI RIVE	R.	NUMB	ER OF DAY				NOT R		RRECTED TIL AUGUST 15,	2002	R	C	C	)P
EPA Form 3320-1 (Rev. revious edit						RM T-40 WHICH	∰					. <i>.</i>	<del>-</del>	PAGE 1	<i>J</i> OF 1

PERMITTE' JADDRESS (Include Facility No cation if different)					IT DISCHARGE ELI E MONITORIN		ORT (DMR)	SO (OVER 4	O BACOD IAI O	''' IN'	FD1	
NAME VOOD RIVER STP. ( ADDRESS 501 W. FERGUSON A			- [	L0031852		A		SUBR 06)		n Appr	•	12345
P.O. BOX 300	HVE.		_	PERMIT NUMBE	R			F - FINAL		• •	040-0004.	
<del></del>	IL 62095							MAJOR			xpires 05-3	1-98
FACILITY WOOD RIVER STP.				· · · · · · · · · · · · · · · · · · ·	NITORING PE			cso		₹ 0298	лр ос чо ч	
LOCATION WOOD RIVER, IL 62			FROM	9EAR MO 02 09	<del></del>	VEAR 02	09 30		DISCHARGE		***	
ATTN:			<del></del> !	المستنشف سال مستن يتبسا			(28-29) (30-31)	NOTE: Read In			mpleting th	ils form.
PARAMETER		(3 Card Only) Q (46-53)	UANTITY OR LOA	DING	(4 Card Only) (38-45)		QUANTITY OR CONCE	NTRATION (54-61)		NO.	FREQUENCY	SAMPLE
. (32-37)		AVERAGE	MAXIMUM	M UNITS	MINIMUM	4	AVERAGE	MUMIXAM	UNITS	EX (62-63	(64-68)	(69-70)
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	*****	*****	•	****	k	50	*****	( 19)	0	375	GR
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT	*****	****	****	****		REPORT MO. AVG	****	MG/L	1	DLY When DIS	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	****	****		****	*	204	*****	( 19)	0	376	GR
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	****	****	****	•	REPORT Mo. AVG	*****	MG/L		DLY When DIS	GRAB
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BRUCE MURPHY PROJECT MANAGER	OBT. TRU SIGN	MY INQUIRY OF THOSE IND AIMING THE INFORMATION, I E. ACCURATE AND COMPLE VIFICANT PENALTIES FOR SUI	Believe The Su Ete. ( Am Awar Matting False in	IBMITTED INFORMATION RE THAT THERE ARE REPORTMENTION, INCLUDING	, s	<i>B</i> ~	u M-7	-ky				
TYPED OR PRINTED	33 (	POSSIBILITY OF FINE AND N U.S.C. 99 1319. (Penalties 1,000 and or maximum im	under these stati	vies may include fine	s up to		NATURE OF PRINCIPAL E OFFICER OR AUTHORIZED			4-4074 UMBER		10 10 MO DAY
COMMENT AND EXPLANATION OF ANY VIOLAT			ALEXABLES OF OF	THE UNIVERSITY WAS	~ J.u.s.)				CODE		<u> </u>	
RECIEVING WATER: MISSIS	SIPPI RIVER.	NUMBE	R OF DAY	'S OF DISCHA	RGE: 3				вс			PY
4	litions may be used.		(REPLACES	S EPA FORM T-40 WHI	AY NOT BE US	ED.)		<u></u>			PAGE	OF 1

NAME V. DEVERSTP.C	TY OF			DISCH# (2-16	MONITOR	ING RE	PORT (IMR) (17-19) <b>C</b>	CSO (OVER 4.8	MGD IN 84	דאו ייו	(R)	
ADDRESS 5. /. RGUSON A			- IL	.0031852				SUBR 06)		Appr	•	12345
P.O, BOX 300				PERMIT NUMB	ER			- FINAL	OMB	No. 20	040-0004.	
WOOD RIVER, II		5		MC	NITORING P	ERIOD		WAJOR	• •		xpires 05-3	11-98
FACETTY WOOD RIVER STP, C			FROM	YEAR MO	DAY	YEAR	1 110	CSO	OCR	0298	1	
LOCATION WOOD RIVER, IL 620	95		<b>-</b> ∟	02 10	01 10	02	10 31	*** NO D NOTE: Read ins	ISCHARGE	Ore co	j *** moletina t	his form.
			UANTITY OR LOAD	20-21) (22-23) ING	(4 Card Only	)	(28-29) (30-31) QUANTITY OR CONCE			1	FREQUENCY	T
PARAMETER (32-37)		(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(38- <u>4</u> MINIM		(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	****	****		***	k#	81	*****	( 19)	0	376	GR
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT RECUIREMENT	*****	*****	****	***		REPORT S	****	MG/L		DLY When Os	3 GRAB
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FLOW, TOTAL	SAMPLE MEASUREMEN	*****	3.33	( 3R)	***	**	*****	*****		0	375	ES
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NAME/TITLE PRINCIPAL EXECUTIVE OFFIC	- A	CERTIFY UNDER PENALTY OF I	ORMATION BUBINITYS	ED HEREIN: AND BAS	ED		2 11		TELEPHONE	1	D	ATE
BRUCE MURPHY PROJECT MANAGER	OF OF OF OF OF OF OF OF OF OF OF OF OF O	N MY INCURRY OF THOSE INC STANNING THE INFORMATION, I RUE, ACCURATE AND COMPLI CHIFICANT PENALTIES FOR SU IE POSSIBILITY OF FINE AND I	nneuals imreciati Believe The Sugn Ete. I am aware Bartting false info Mprischment. See	ely responsible vitted information : That There are ormation, includin : 18 U.S.C, 44 1001 A	FOR IS IG FD	ļ	SNATURE OF PRINCIPAL E	executive	618   254	-4074	02	11 05
TYPED OR PRINTED	3.	U.S.C. es 1319. (Penalties 10,000 and or maximum im	under these statuts prisonment of betw	es may include fin veen 6 months and	es up to 'S years.)	1	OFFICER OR AUTHORIZE		AREA NUM	MBER	YEAR	MO DAY
RECIEVING WATER: MISSIS: FLOWS ESTIMATED DUE TO	SIPPI RIVER.	NUMBE	R OF DAYS	S OF DISCH	ARGE: 3				ВС		0	ЭĒ

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

EPA Form 3320-1 (Rev. 8-95)Previous editions may be used.

PERMITTEE N DO S (Include Facility Nam id fferent)  NAME W. JO N. FER STP. C	ITY OF		NA NA	DISCHA: (2-16)	ONITOR		PORT (DMR)	CSO (OVER 4	.8 MGD IN 8	4" INT	R)	,
ADDRESS 501 W. FERGUSON A			ILOC	31852	·	A	.01	(SUBR 06)		ı Appr	-	12345
P.O. BOX 300			_	PERMIT NUMBER	•		CHARGE HUMBER	F - FINAL			140-0004.	
	L 62095			MOI	NITORING P	EDIAN		MAJOR	Аррг	oval e	xpires 05-3	1-98
FACILITY WOOD RIVER STP, C	ITY OF		YE		DAY	YEAR	MO DAY	CSO	OCR	0298		
LOCATION WOOD RIVER, IL 620	95		FROM 0		01 10	02	11 30		DISCHARGE		***	
ATTN:	<del></del>		(20-			·	(28-29) (30-31)	NOTE: Read In	structions be	ore co		his form.
PARAMETER		(3 Card Only) Q (46-53)	UANTITY OR LOADING (54-61)		(4 Card Only (38-45		QUANTITY OR CO (46-53)	MCENTRATION (34-61)		NO.	FREQUENCY OF	SAMPLE
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIM	т.	AVERAGE	MUMIXAM	UNITS	EX (62-63)	(64-68)	(69-70)
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	****	*****		****	*	132	*****	( 19)	0	376	GR
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	***		REPORT		MG/L	7,05 7,07,7 7,67,7	DLY When D	S GRAB
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00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT AC A	*****	*****	****	****		REPORT MO. AVG		MG/L		DLY When D	SGRAD
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BRUCE MURPHY PROJECT MANAGER	OBTAR TRUE,	I INQUIRY OF THOSE IND NING THE INFORMATION, I ACCURATE AND COMPLE FICANT PENALTIES FOR SUID	Believe the Submitt Te. ) am aware th	ed information is at there are	R \$	10.	me M/m	-phy				
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TYPED OR PRINTED	\$10,00	00 and or maximum imp	orisonment of between	6 months and 3	years)		OFFICER OR AUTHOR	IZED AGENT	AREA NU CODE	MBER	YEAR	MO DAY
RECIEVING WATER: MISSISS FLOWS ESTIMATED DUE TO	SIPPI RIVER. NO FLOW MET	NUMBE	R OF DAYS C	FORM T-40 WHICH	68 A	SED.)			ВС	· · ·	PAGE	

PERMITTEE! \DDRESS (Include Facility Nam iton if different)				NATION D!	غرSCHA			SYSTEM (NPDES)	200 (O)(ED 4	0.110	D IN 04	ii ibi*		
ADDRESS 501 W. FERGUSON A				IL0031	(2-16) R <b>52</b>				SO (OVER 4 SUBR 06)	.8 MIG	Form.		-	12345
P.O. BOX 300	(VE,		- · ├		MIT NUMBER				F - FINAL				40-0004.	12070
	L 6209	Б	<u></u>						MAJOR				cpires 05-3	1-98
FACILITY WOOD RIVER STP. C				YEAR	MON MO	ITORING F	'ERIOD YEAR	ſ	CSO		OCR			
LOCATION WOOD RIVER, IL 620			FROM	02	<del></del>	01 10	02	12 31		DISCH	j		***	
ATTN:	<del></del>					24-25 }		(28-29) (30-31)	NOTE: Read In			re co	mpleting ti	ils form.
PARAMETER			UANTITY OR LO			( 4 Card Only	)	QUANTITY OR CONCE				NO.	FREQUENCY	SAMPLE
(32-37)		(46-53) AVERAGE	(54-61 MAXIMU		UNITS	(38-4 MINIM		(46-53) AVERAGE	(.54-61.) MAXIMUM		UNITS	EX (62-63)	ANALYSIS (64-68)	TYPE (69-70)
BOD, 5-DAY (20 DEG. C)	8AMPLE MEASUREMENT	****	****	*		****	**	41	***	(	19)	0	376	GR
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	****	****	<b>4</b> • <b>4</b> •	****	***	k #	REPORT MO, AVG	****	N	1G/L		DLY When Dis	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	****	****	*		***	k*	236	****	(	19)	0	375	GR
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	****	*	****	***	<b>A</b> *	REPORT MO. AVG	****	N	/IG/L	1.1	OLY When Dis	3 GRAB
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FLOW, TOTAL	SAMPLE MEASUREMENT	****	1.15		( 3R)	***	**	****	*****			0	376	ES
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A Form 3320-1 (Rev. I Previous editions may be used.

(REPLACES EPA FORM T-40 WHICH M. )T BE USED.)

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PERMITTEE'-NODRESS (Include tion if different) NATIONAL PO DISCHARGE ELIMINATION SYSTEM (NPDES) \_\_ MONITORING REPORT (DMR) DISCHA. Facility Nam CSO (OVER 4.8 MGD IN 84" INTR) (17-19) WOOD RIVER STP, CITY OF NAME (2-16) (SUBR 06) Form Approved. 12345 IL0031852 501 W. FERGUSON AVE. A01 ADDRESS. PERMIT NUMBER DISCHARGE NUMBER F - FINAL OMB No. 2040-0004. P.O. BOX 300 MAJOR Approval expires 05-31-98 WOOD RIVER. 62095 MONITORING PERIOD CSO WOOD RIVER STP. CITY OF OCR 0298 FACILITY YEAR DAY YEAR MO DAY MO \*\*\* LOCATION WOOD RIVER, IL 62095 FROM TO 03 \*\*\* NO DISCHARGE 01 03 31 03 03 NOTE: Read instructions before completing this form. (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) ATTN: QUANTITY OR CONCENTRATION QUANTITY OR LOADING (4 Card Only) (38-45 (3 Card Only) (46-53 FREQUENCY NO SAMPLE. PARAMETER (34-61) (54-61) (45-53) EX TYPE ANALYSIS (32-37) **AVERAGE** MUMIXAM UNITS MINIMUM AVERAGE MAXIMUM UNITS (62-63)(64-68) (69-70) BOD. 5-DAY SAMPLE 19) 152 0 \*\*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT (20 DEG. C) \*\*\* 00310 1 0 0 REPORT PERMIT \*\*\* DLY When DIS GRAB \*\*\* \*\*\* \*\*\*\* EFFLUENT GROSS VALUE REQUIREMENT MO. AVG MG/L SOLIDS, TOTAL SAMPLE ( 19) 375 GR 0 219 \*\*\*\*\* \*\*\*\* \*\*\*\*\* \*\*\*\* MEASUREMENT SUSPENDED \*\*\* 100530 1 0 0 REPORT PERMIT DLY When DIS GRAB \*\*\* \*\*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE MG/L REQUIREMENT MO. AVG COLIFORM, FECAL (13)SAMPLE 3400000 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT **GENERAL** \*\*\* 74055 1 0 1 OAILY WH # / 100 ML PERMIT \*\*\*\* GRAB \*\*\*\* \*\*\* \*\*\* DISCHR **EFFLUENT GROSS VALUE** \*\*\*\*\* REQUIREMENT 375 FLOW, TOTAL SAMPLE 3R) ES Ð \*\*\*\* 10.00 \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT CONTIN DAILY \*\*\* \*\*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE REQUIREMENT M GAL MO TOTAL SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT  $\mathcal{F} = \{ (1, 1)^{n} : (1, 1)^{n} \in \mathbb{R}^n \}$ المراجعة الما PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE ON MY MOURY OF THOSE INDIVIDUALS MANEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS **BRUCE MURPHY** TRUE, ACCURATE AND COMPLETE, I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING PROJECT MANAGER 618 254-4074 **D3** 04 11 THE POSSIBILITY OF FINE AND EMPRISONMENT, SEE 18 U.S.C. DO 1001 AND SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. so 1310. (Penalties under these statutes may include fines up to AREA TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO \$10,000 and or maximum imprisonment of between 6 months and 5 years.) DAY COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here ) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 4 FLOWS ESTIMATED DUE TO NO FLOW METER. EPA Form 3320-1 8-95)Previous editions may be used.

(REPLACES EPA FORM T-40 WALLA MAY NOT BE USED.)

ANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT ME/ADDRESS\_(Include DISCHARGE MONITORING REPORT (DMR) (2-16) (17-19) Location if different) Facility i. CSO (OVER 4.8 MGD IN 84" INTR) WOOD RIVER STP, CITY OF NAME IL0031852 (SUBR 06) Form Approved. 12345 501 W. FERGUSON AVE. A01 ADDRESS PERMIT NUMBER DISCHARGE NUMBER F - FINAL OMB No. 2040-0004. P.O. BOX 300 MAJOR WOOD RIVER, 62095 Approval expires 05-31-98 IL MONITORING PERIOD WOOD RIVER STP. CITY OF CSO OCR 0298 FACILITY YEAR MO DAY YEAR MO DAY WOOD RIVER, IL 62095 FROM NO DISCHARGE LOCATION TO 03 04 01 03 04 30 NOTE: Read instructions before completing this form, (20-21) (22.23) (24-25) (26-27) (28-29) (30-31) ATTN: (4 Card Only) (38-45) 3 Card Only) QUANTITY OR LOADING QUANTITY OR CONCENTRATION FREQUENCY SAMPLE PARAMETER (46-53) (54-61) (46-53) (54-61) TYPE ΕX ANALYSIS (32-37) AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS (62-63) (64-68) (69-70) BOD, 5-DAY SAMPLE 19) \*\*\*\* \*\*\*\*\* \*\*\*\* 78 \*\*\* MEASUREMENT (20 DEG, C) \*\*\* 00310 1 0 0 REPORT PERMIT \*\*\*\* \*\*\* \*\*\* \*\*\*\* OLY When DIS (GRAB EFFLUENT GROSS VALUE REQUIREMENT MO. AVG MG/L SOLIDS, TOTAL ( 19) SAMPLE GR \*\*\*\* \*\*\*\*\* \*\*\*\*\* 238 \*\*\*\* MEASUREMENT SUSPENDED \*\*\* 00530 1 0 0 REPORT PERMIT DLY When DIS GRAB \*\*\*\* \*\*\* \*\*\*\* \*\*\* REQUIREMENT MG/L EFFLUENT GROSS VALUE MO, AVG COLIFORM, FECAL (13) GR SAMPLE 827500 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT GENERAL \*\*\* DAILY WH 74055 1 0 1 #/100 ML PERMIT \*\*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\* GRAB DISCHR **EFFLUENT GROSS VALUE** REQUIREMENT. \*\*\*\* 375 FLOW, TOTAL 3R) ES SAMPLE 0 18.00 \*\*\* \*\*\*\* \*\*\*\* \*\*\*\*\* MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT DAILY CONTIN \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE M GAL REQUIREMENT MO. TOTAL SAMPLE. MEASUREMENT PERMIT RECUREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED ON MY MOURY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR **BRUCE MURPHY** OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND DOMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 80 1001 AND PROJECT MANAGER 618 254-4074 03 05 07 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. se 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) AREA TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO DAY COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here ) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 5

EPA Form 3320-1 (F

-95)Previous editions may be used.

FLOWS ESTIMATED DUE TO NO FLOW METER.

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OORESS (Include on if different) NATIONAL POL **HSCHARGE ELIMINATION SYSTEM (NPDES)** PERMITTEE N MONITORING REPORT (DMR) DISCHA. Facility Name CSO (OVER 4.8 MGD IN 84" INTR) 」」 RÍVÉR SŤP. CITY OF (17-19) NAME (2-16) (SUBR 06) Form Approved. 12345 501 W. FERGUSON AVE. IL0031852 A01 PERMIT NUMBER DISCHARGE NUMBER F - FINAL OMB No. 2040-0004. P.O. BOX 300 **MAJOR** Approval expires 05-31-98 62095 WOOD RIVER. MONITORING PERIOD CSO WOOD RIVER STP. CITY OF OCR 0298 FACILITY YEAR DAY YEAR MO DAY WOOD RIVER, IL 62095 FROM TO **NO DISCHARGE** \*\*\* LOCATION 03 05 01 03 05 31 NOTE: Read instructions before completing this form. ATTN: (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) (3 Card Only) (46-33 QUANTITY OR LOADING QUANTITY OR CONCENTRATION 4 Card Only FREQUENCY NO SAMPLE PARAMETER (54-61) (34-61) (46.53) EΧ TYPE ANALYSIS (32-37) AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS 62-63) (64-68) (69-70) BOD, 5-DAY SAMPLE 19) 75 0 \*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT (20 DEG. C) \*\*\*\* 00310 1 0 0 REPORT PERMIT \*\*\*\* \*\*\*\* \*\*\* DLY When DIS GRAB \*\*\* EFFLUENT GROSS VALUE RECUREMENT MO. AVG MG/L SOLIDS, TOTAL GR SAMPLE 19) 375 265 0 \*\*\*\*\* \*\*\* \*\*\*\* \*\*\*\* MEASUREMENT ISUSPENDED \*\*\*\* 100530 1 0 0 REPORT PERMIT DLY When DIS GRAB \*\*\*\*\* \*\*\*\* \*\*\*\*\* \*\*\*\*\* EFFLUENT GROSS VALUE RECURREMENT MG/L MO. AVG 375 COLIFORM, FECAL SAMPLE (13) 2500000 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT GENERAL \*\*\* DAILY WH 74055 1 0 1 # / 100 ML PERMIT \*\*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* GRAB DISCHR \*\*\*\* EFFLUENT GROSS VALUE REQUIREMENT 375 FLOW. TOTAL 3R) SAMPLE 0 les 21.00 \*\*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT CONTIN \*\*\*\* \*\*\* \*\*\*\* \*\*\* DAILY EFFLUENT GROSS VALUE REQUIREMENT M GAL MO. TOTAL SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT 100万件。2006年2月 1907年2月2日 PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INCLURY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION. I BELIEVE THE SUBMITTED INFORMATION IS **BRUCE MURPHY** TRUE, ACCURATE AND COMPLETE, I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING PROJECT MANAGER THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 15 U.S.C. IN 1001 AND 254-4074 06 618 03 10 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. so 1516. Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) AREA TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT NUMBER YEAR COMMENT AND EXPLANATION OF ANY VIOLATIONS/ Reference all attachments here ) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 4 FLOWS ESTIMATED DUE TO NO FLOW METER. EPA Form 3320-1 (R 295)Previous editions may be used. (REPLACES EPA FORM T-40 WHS AND NOT BE USED.)

PERMITTEEN OORESS (Include Facility Name on if different)				NATIONAL PO DISCHA				ON SYSTEM (NPDES	•	0 MOD IN 6		rm.		
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RECIEVING WATER: MISSISS FLOWS ESTIMATED DUE TO	SIPPI RIVER.	NUMBE	R OF DAY		HAR	RGE: 3					вс			!
EPA Form 3320-1 (Rev. 1 evious edit	ions may be used.		(REPLACE:	S EPA FORM T-4	0 WHIC	OL. NOT BE	USED.)					PAGE	Ę	1

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PERMITTEE N DORESS (Include con if different)	TVOE			NAL POL ISCHAK (2-18)	MONITORING RE		CSO (OVER 4.8	R MCD IN 84	" INT!	<b>5</b> 1	
NAME WOUD RIVER STP, CI ADDRESS 501 W. FERGUSON AV			IL003			A01	(SUBR 06)	Form		•	12345
P.O. BOX 300				RMIT NUMBER		HECHARGE NUMBER	F - FINAL	OMBI	No. 20	40-0004.	
WOOD RIVER, IL	62095		_	MON	ITORING PERIOD	1	MAJOR	Appro	val ex	pires 05-3	11-98
FACILITY WOOD RIVER STP, CI	TY OF		YEAR		DAY YEAR	MO DAY	CSO	OCR (	298		
LOCATION WOOD RIVER, IL 6205	95		FROM 03	07	01 <sup>TO</sup> 03	07 31		DISCHARGE		***	
ATTN:	٠,		(20-21)	(22-23) (			NOTE: Read In:	structions befo	re cor		his form.
PARAMETER		(3 Card Only) QL (46-53)	JANTITY OR LOADING (54-61)	·	(4 Card Only) (38-45)	QUANTITY OR CO	NCENTRATION (34-61)		NO.	FREQUENCY OF AVALYSIS	SAMPLE TYPE
(32-37)		AVERAGE	MAXIMUM	UNITS	MUMMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(64.68)	(69-70)
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	****	*****		*****	123	****	( 19)	0	375	GR
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	****	REPORT Mo. AVG	****	MG/L		OLY When O	SORAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	****	****		*****	336	****	( 19)	0	375	GR
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TYPED OR PRINTED	\$10,0	000 and or maximum imp	risonment of between b	months and 3	years.)	OFFICER OR AUTHOR	ZED AGENT	AREA NUM	IBER	YEAR	MO DAY
COMMENT AND EXPLANATION OF ANY VIOLAT RECIEVING WATER: MISSISS	IPPI RIVER.	NUMBE	R OF DAYS OF	DISCHAF	RGE: 2			20	ı		10
FLOWS ESTIMATED DUE TO I		IEK.	(REPLACES EPA F		<b>^</b>			BC		PAGE	OF 1

PERMITTEE ADDRESS (Include Facility Nan tion if different)						NATION SYSTEM (NPDES)  REPORT (DMR)					
NAME VOUD RIVER STP, C			11.000	(2-16)		(17-19)	CSO (OVER 4.			*	12345
AODRESS 501 W. FERGUSON AT	VE		IL003	TOOZ	<del>,</del>	A01	(SUBR 06) F - FINAL		Appri	340-0004.	12345
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WOOD RIVER, IL		<u> </u>	_	MON	IITORING PER	IOD	MAJOR			xpires 05-3	1-80
FACILITY WOOD RIVER STP, C			YEAR		<del></del>	EAR MO DAY	CSO		0298	1	
LOCATION WOOD RIVER, IL 620	95		_ FROM 03	80		08 31	*** NO I	DISCHARGE	X	} ★★★ moletine th	hie form
ATTN:		(3 Card Only) QI	(20-21) UANTITY OR LOADING	(22-23) (	24-25) (26- (4 Card Only)	-27) (28-29) (30-31) QUANTITY OR COL		attuctions bei	7	FREQUENCY	Т
PARAMETER		(46-33)	(54-61)		(38-45)	(46-53)	(54-61)		NO.	OF ANALYSIS	SAMPLE TYPE
(32-37)		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	(62-63)	(64-68)	(69-70)
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TYPED OR PRINTED	\$10	,000 and or maximum imp	risonment of between 6	months and S	years.)	OFFICER OR AUTHORI	IZED AGENT	AREA NU	MBER	YEAR	MO DAY
RECIEVING WATER: MISSISS FLOWS ESTIMATED DUE TO	SIPPI RIVER.	NUMBE	R OF DAYS OF	DISCHA	RGE: 0			ВС			
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PERMITTEE NAM TSS (Include Facility Name/Lo. "ifferent)					NAL POLUTA			N SYSTEM	(DMR)		Man NI AA		· • ·	
NAME WOOD ZER STP, CI		·····		IL0031	(2-16)		Γ_	<u>(17-1)</u> <b>A01</b>	<del>)</del>	CSO (OVER 4.8 (SUBR 06)		Appro		12345
P.O. BOX 300	/E		-  -		RMIT NUMBER			DISCHARGE N		F - FINAL			40-0004.	12040
WOOD RIVER, IL	62095									MAJOR			xpires 05-3	31-98
FACILITY WOOD RIVER STP, CI			<del>-</del>		<del></del>	ITORING I			· · · · · · · · · · · · · · · · · · ·	cso	OCR		χρ., συ συ <b>τ</b>	
LOCATION WOOD RIVER, IL 6209	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	······································	FROM	YEAR	<del></del>	01 TO	YEAR	Mc 09	DAY		SCHARGE	<u> </u>	***	
ATTN:	90	N.		(20.21)		24-25)	(26.27)	(28-29)	(30,37)	NOTE: Read Inst		ore co		his form.
			UANTITY OR LO	ADING	122-25/ 12	(4 Card Onl)	·)	CUAN	TITY OR CO	NCENTRATION	<del></del>	NO.	FREQUENCY	SAMPLE
PARAMETER (32-37)	$\sim$	(46-53)	(54-61		I	(38-4			46-31)	(54-61)	<del>-</del>	EX.	OF ANALYSIS	TYPE
		AVERAGE	MAXIMU	M	UNITS	WININ	KUM —	^	VERAGE	MUMIXAM	UNITS	(62-63)	(64-68)	(69-70)
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00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	****	***	*	****	****	**		PORT ), AVG	*****	MG/L		DLY When Di	S GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	****	****	*		***	**	14	8	****	( 19)	0	375	GR
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	****	****	k	****	****	**		PORT D. AVG	*****	MG/L		DLY When D	S GRAB
COLIFORM, FECAL GENERAL	SAMPLE MEASUREMENT	****	****	*		***	**	**	****	590000	( 13)	2	375	GR
74055 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	****	****	*	****	***	**	**	***	***	# / 100 N	1	DAILY WH DISCHR	GRAB
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TYPED OR PRINTED	33 U.	S.C. 12 1319. (Penalties 2	mder these stat	tutes may	include fines	up to	SI			TE EXECUTIVE		AU/4	YEAR	MO DAY
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RECIEVING WATER: MISSISS FLOWS ESTIMATED DUE TO I	IPPI RIVER.	NUMBE	R OF DAY	/S OF	DISCHAR	RGE: 2					ВС		,1	JP'

EPA Form 3320-1 (Rev. 8-95)Previous editions may be used.

PAGE 1 OF 1

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

PERMIT: ME: DORESS (Include Facility Name/L n if different) DISCH SE MONITORING REPORT (DMR) CSO (OVER 4.8 MGD IN 84" INTR (17-19) WOL J RIVER STP, CITY OF (2-li NAME 12345 (SUBR 06) Form Approved. IL0031852 A01 501 W. FERGUSON AVE. **ADDRESS** PERMIT NUMBER DISCHARGE NUMBER F - FINAL OMB No. 2040-0004. P.O. BOX 300 MAJOR Approval expires 05-31-98 WOOD RIVER. 62095 MONITORING PERIOD CSO WOOD RIVER STP, CITY OF OCR 0298 FACILITY MO DAY YEAR MO DAY YEAR LOCATION WOOD RIVER, IL 62095 FROM \*\*\* NO DISCHARGE 03 10 03 10 01 31 NOTE: Read instructions before completing this form. (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) ATTN: QUANTITY OR CONCENTRATION 3 Card Only) QUANTITY OR LOADING (4 Card Only) (38-45 FREQUENCY SAMPLE PARAMETER (46-53) (46-53) (34-61) (54-61)EΧ TYPE ANALYSIS (32-37) AVERAGE MAXIMIM UNITS **AVERAGE** MAXIMUM UNITS MINIMUM 62-63) (64.68)(69.70) 191 BOD, 5-DAY SAMPLE 0 \*\*\*\* \*\*\*\*\* \*\*\*\* 123 \*\*\*\* MEASUREMENT (20 DEG, C) \*\*\*\* 00310 1 0 0 REPORT PERMIT DLY When DIS GRAB \*\*\* \*\*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE REQUIREMENT MO. AVG MG/L SOLIDS, TOTAL 19) 375 SAMPLE 0 \*\*\*\* \*\*\*\* \*\*\*\* 219 \*\*\*\* MEASUREMENT SUSPENDED \*\*\* 00530 1 0 0 REPORT PERMIT DLY When DIS GRAB \*\*\*\*\* \*\*\*\* \*\*\*\* \*\*\* EFFLUENT GROSS VALUE REQUIREMENT MG/L MO. AVG 375 COLIFORM, FECAL (13) SAMPLE 2200000 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT GENERAL \*\*\* DAILY WH 74055 1 0 1 # / 100 ML PERMIT GRAB \*\*\*\* \*\*\*\* \*\*\*\*\* \*\*\*\* DISCHR EFFLUENT GROSS VALUE REQUIREMENT \*\*\*\* 375 FLOW, TOTAL SAMPLE 3R) \*\*\*\*\* 0 \*\*\*\* 4.00 \*\*\*\* \*\*\*\* MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT \*\*\*\* CONTIN \*\*\*\* \*\*\*\* \*\*\* DAILY . EFFLUENT GROSS VALUE REQUIREMENT. M GAL MO. TOTAL Robert Robert Confidence SAMPLE MEASUREMENT British Br PERMIT ! 域影響為 到红斑 REQUIREMENT 不過气力等 1 1 W 2 1 1 1 SAMPLE MEASUREMENT 文 经出现的 PERMIT d to help REQUIREMENT RAMPI F MEASUREMENT PERMIT: 13 REQUIREMENT. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED ON MY MOURRY OF THOSE INDIVIDUALS MANDATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS **BRUCE MURPHY** TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING VALSE INFORMATION, INCLUDING **PROJECT MANAGER** 254-4074 03 04 THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. to 1001 AND 618 11 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. es 1319. Penalties under these statutes may include fines up to AREA NUMBER TYPED OR PRINTED YEAR DAY OFFICER OR AUTHORIZED AGENT \$10,000 and or maximum imprisonment of between 6 months and 5 years.) COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 1

NATIONAL

ANT DISCHARGE EUMINATION SYSTEM (NPDES)

EPA Form 3320-1 (Rev. 8-95)Previous editions may be used.

FLOWS ESTIMATED DUE TO NO FLOW METER.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

PAGE 1 OF

PERMITTEE NA DRESS (Include on if different) NATIONAL POLU SCHARGE ELIMINATION SYSTEM (NPDES) Facility Name/L DISCHARGE MONITORING REPORT (IMIR) WOOD RIVER STP, CITY OF CSO (OVER 4.8 MGD IN 84" INTR) (2-16) (17-19) IL0031852 (SUBR 06) Form Approved. 12345 501 W. FERGUSON AVE. A01 ADDRESS PERMIT NUMBER DISCHARGE NUMBER F - FINAL OMB No. 2040-0004. P.O. BOX 300 62095 MAJOR WOOD RIVER. IL Approval expires 05-31-98 MONITORING PERIOD WOOD RIVER STP. CITY OF CSO OCR 0298 FACILITY DAY YEAR MO DAY YEAR MO LOCATION WOOD RIVER, IL 62095 \*\*\* FROM TÓ NO DISCHARGE 03 11 01 03 11 30 NOTE: Read instructions before completing this form. ATTN: (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) ( 3 Card Only ) ( 46-53 ) (4 Card Only) (38-45) QUANTITY OR CONCENTRATION QUANTITY OR LOADING FREQUENCY NO. SAMPLE PARAMETER (46-33) (34-61) (34-61) EX TYPE ANALYSIS (32-37) AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS 62-631 (64-68) (69-70) BOD, 5-DAY SAMPLE 19) 375 GR 0 \*\*\*\*\* 43 \*\*\*\* \*\*\*\*\* \*\*\*\* MEASUREMENT (20 DEG. C) \*\*\*\* 00310 1 0 0 REPORT PERMIT DLY When DIS GRAR \*\*\* \*\*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE REQUIREMENT MG/L MO. AVG SOLIDS, TOTAL SAMPLE (19) 375 0 77 \*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\* MEASUREMENT SUSPENDED 大大大大 00530 1 0 0 REPORT PERMIT \*\*\*\* \*\*\* \*\*\* \*\*\*\* DLY When DIS GRAB EFFLUENT GROSS VALUE REQUIREMENT MÖ, AVG MG/L 375 COLIFORM, FECAL GR SAMPLE (13)3 \*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\* 11000000 MEASUREMENT **GENERAL** \*\*\* DAILY WH 74055 1 0 1 # / 100 ML PERMIT \*\*\*\* GRAB : \*\*\*\* \*\*\* \*\*\*\* **EFFLUENT GROSS VALUE** DISCHR \*\*\*\*\* REQUIREMENT FLOW, TOTAL SAMPLE 3R) O ES \*\*\*\* 37.50 \*\*\*\*\* \*\*\* 大大大大大大 MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT \*\*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* DAILY CONTIN **EFFLUENT GROSS VALUE** REQUIREMENT MO. TOTAL M GAL SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT. REQUIREMENT SAMPLE MEASUREMENT PERMIT 海水流產繳 REQUIREMENT I CERTIFY LINDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS **BRUCE MURPHY** TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE **PROJECT MANAGER** SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT, BEE 18 U.S.C. III 1001 AND 618 254-4074 03 12 05 SIGNATURE OF PRINCIPAL EXECUTIVE 23 U.S.C. vs 1319. Penalties under these statutes may include fines up to AREA TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT NUMBER YEAR \$10,000 and or maximum imprisonment of between 6 months and 5 years.) DAY COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here ) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 3 FLOWS ESTIMATED DUE TO NO FLOW METER. BC

(REPLACES EPA FORM T-40 WHICK NOT BE USED.)

EPA Form 3320-1 (Re 5)Previous editions may be used.

PERMITTEE N/ ODRESS (Include Facility Name on if different) NAME W JRIVER STP, C	m or				NAL POL ISCHA			N SYSTEM (NPDES) PORT (DMR)	CCO /OVER 4.9	MCD IN 94	I (AIT	·D1	
NAME W JRIVER STP, C ADDRESS 501 W. FERGUSON A				IL0031	(2-16) 1852		Г	<i>(17-19)</i> 401	CSO (OVER 4.8 (SUBR 06)		Appr	•	12345
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NAME/TITLE PRINCIPAL EXECUTIVE OFFIC	<sup>/⊑™</sup> ] ∧	CERTIFY UNDER PENALTY OF LIND AM FAMILUA WITH THE RIFC	TIMBUZ KOTAMAC	TTED HERE	IN: AND BASED			2 1/	1	TELEPHON	E	0/	ATE
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TYPED OR PRINTED	3	3 U.S.C. so 1319. (Penalties 1	under these stat	tutes may	include fines	up to vears.)	1 "	INATURE OF PRINCI OFFICER OR AUTHO	LAW PAGE AND TAKE	4554	MBER	· <del>  </del>	MO DAY
COMMENT AND EXPLANATION OF ANY VOLATION OF ANY	SIPPI RIVER NO FLOW M	. NUMBE	R OF DAY		6	×	<u> </u>			BC	:	CC	
EPA Form 3320-1 (F 95)Previous edit	ions may be used.	···· <del></del>	(REPLACE	S EPA FO	RM T-40 WH	AY NOT BE	USED.)					PAGE, 🔏	OF 1

PERMITTEE N DRESS (Include ion if different) NATIONAL POLL ISCHARGE ELIMINATION SYSTEM (NPDES) DISCHAR — MONITORING REPORT (DMR) Facility Name. CSO (OVER 4.8 MGD IN 84" INTR) WOOD RIVER STP, CITY OF NAME IL0031852 (SUBR 06) Form Approved. 12345 501 W. FERGUSON AVE. A01 ADDRESS PERMIT NUMBER F - FINAL DISCHARGE NUMBER OMB No. 2040-0004. P.O. BOX 300 MAJOR Approval expires 05-31-98 WOOD RIVER. IL 62095 MONITORING PERIOD CSO WOOD RIVER STP, CITY OF FACRITY OCR 0298 МО DAY YEAR MO DAY YEAR WOOD RIVER, IL. 62095 FROM TO \*\*\* NO DISCHARGE \*\*\* LOCATION 04 01 01 04 01 31 NOTE: Read instructions before completing this form. (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) ATTN: (3 Card Only) QUANTITY OR LOADING QUANTITY OR CONCENTRATION (4 Card Only) (38-45) FREQUENCY SAMPLE PARAMETER (46-53) (54-61) (46-53) (54-61) EΧ TYPE ANALYSIS (32-37)MAXIMUM MINIMUM **AVERAGE** UNITS AVERAGE MUMIXAM UNITS (62-63) (64-68) (69-70) BOD, 5-DAY SAMPLE 19) GR 0 37 \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* MEASUREMENT (20 DEG. C) \*\*\*\* 00310 1 0 0 REPORT PERMIT : \*\*\*\*\* \*\*\*\* DLY When DIS GRAB \*\*\*\*\* \*\*\* **EFFLUENT GROSS VALUE** REQUIREMENT MO, AVG MG/L SOLIDS, TOTAL SAMPLE ( 19) 0 55 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT SUSPENDED \*\*\* 00530 1 0 0 REPORT PERMIT \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\*\* DLY When DIS GRAB EFFLUENT GROSS VALUE REQUIREMENT MG/L MO. AVG COLIFORM, FECAL 375 SAMPLE (13)GR 0 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\*\* 460000 MEASUREMENT GENERAL \*\*\*\* 74055 1 0 1 #/100 ML DAILY WH REPORT PERMIT : \*\*\*\* \*\*\*\* \*\*\*\*\* GRAR \*\*\*\* DISCHR **EFFLUENT GROSS VALUE** REQUIREMENT \*\*\* 375 FLOW. TOTAL **SAMPLE** 3R) ES 0 15.75 \*\*\*\* \*\*\*\*\* \*\*\* \*\*\*\* MEASUREMENT \*\*\*\* 82220 1 0 0 REPORT PERMIT: \*\*\*\* \*\*\*\* \*\*\*\* DAILY CONTIN \*\*\* EFFLUENT GROSS VALUE REQUIREMENT M GAL MO. TOTAL SAMPLE MEASUREMENT A Sugar PERMIT ! REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE, I AM AWARE THAT THERE ARE **BRUCE MURPHY** BIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION. INCLUDING PROJECT MANAGER THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 14 U.S.C. \*\* 1001 AND 618 254-4074 04 02 10 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. so 1318. (Penalties under these statutes may include fines up to AREA TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT NUMBER YEAR \$10,000 and or maximum imprisonment of between 6 months and 5 years.) COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all allachments here) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 2

FLOWS ESTIMATED DUE TO NO FLOW METER.





PERMITTE EJAPORESS (Include Facility Name WOC LIVER STP. C	TV OF			NATION DIS	SCHA (2-16			PORT (DMR) (17-19)	CSO (OVER 4.	a MG	:D IN 84'	' INT	R	
ADDRESS 501 W. FERGUSON A				IL0031			A		(SUBR 06)		Form /		-	12345
P.O. BOX 300				PEF	MIT NUMBER		Di		F - FINAL		OMB N	lo. 20	40-0004.	
WOOD RIVER,	L 62095				MON	ITORING P	EDIOD	<del></del> -	MAJOR		Appro	val ex	pires 05-3	1-98
FACILITY WOOD RIVER STP, C	ITY OF		<del></del>	YEAR	MO N	DAY	YEAR	MO DAY	CSO		OCR 0	298		
LOCATION WOOD RIVER, IL 620			FROM	04	<del> </del>	01 TO	04	02 29	*** NO	DISCH	IARGE [		***	
ATTN:		.,	***	(20-21)	(22-23) (	24-25)	(26-27)	(28-29) (30-31)	NOTE: Read In	structi	ions befo	re co	mpleting ti	ils form.
PARAMETER			JANTITY OR LOA (54-6)			(4 Card Only (38-4)		QUANTITY OR CON (46-53)	CENTRATION { 54-61 }			NO.	FREQUENCY OF	SAMPLE
(32-37)		(46-53) AVERAGE	MAXIMU		UNITS	MINIMA		AVERAGE	MAXIMUM	1	UNITS	EX (62-63)	ANALYSIS	TYPE (69-70)
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	*****	****	*		****	*	74	*****	(	19)	0	375	GR
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NAME/TITLE PRINCIPAL EXECUTIVE OFFIC	AND A	tify under penalty of L W. Familiar with the info Y inquiry of those indi	RMATION SUBMIT	TTED HEREI	N: AND BASED		1	11		<u> </u>	TELEPHONE		0,	ATE
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EPA Form 3320-1 (Rev. 8-95)Previous editions may be used.

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PERMITTEE Ni ORESS (Include Facility Name). on if different) NAME WOOD RIVER STP, C	NTV OF					ISCHARG MONITO	E ELIMINAT	ION SYSTEM (NPI PORT (DMR (17-19)	?) `	CSO (OVER 4.8	MGD	IN 84	יי ואד	Έ)	
NAME WOOD RIVER STP, C ADDRESS 501 W. FERGUSON A				IL00318				A01		(SUBR 06)		Form		•	2345
P.O. BOX 300	<u> </u>		- }-	<del></del>	MIT NUMBE	₹	· ·	ISCHARGE NUMBER		F - FINAL				40-0004.	
	L 6209	S.								MAJOR				pires 05-3	1-98
FACILITY WOOD RIVER STP. C		<del></del>	_	YEAR		DAY DAY	PERIOD	MO DA		CSO		OCR (		· · · · · · · ·	
LOCATION WOOD RIVER, IL 620			FROM	04	03	01 70		03 31	<u></u>		ISCHAF	1		***	
ATTN:					(22-23) (	<u>* • · · · · · · · · · · · · · · · · · · </u>	(26-27)	(28-29) (30-3		NOTE: Read Insi			re co		is form.
			UANTITY OR LO	ADING	1 / 1 -	( 4 Card On	ly)	QUANTITY OF	CON				NO.	FREQUENCY	SAMPLE
PARAMETER (32-37)	$\rightarrow$	(46-53)	(54-61				-45)	(46-53)		(34-61)			EX	OF ANALYSIS	TYPE
		AVERAGE	MAXIML	JM	atinu	MIN	IMUM	AVERAG	SE.	MAXIMUM	U	งกร	(62-63)	(64-68)	(69-70)
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	*****	****	*		****	***	96		****		19)	0	375	GR
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	MEASUREMEN	T AND THE PARKAGE AND	l warveni stav	Page Page 19		.05 Note 162 SE	e (s. 1881) (en de	T FAMILIA STA	Stage Pa	William State of the Control	<del>-</del>			\$4.0 A A A	
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RECIEVING WATER: MISSIS	SIPPI RIVER.	NUMBE	R OF DAY	rs of D	DISCHAF	RGE: 3						ВС	(		)PY
ATTAL.	ione may be used.		(REPLACE	8 EPA FOR	RM T-40 WH	ON Y	BE USED.)		<u></u>					PAGE	

Fucility Name/L. If different)  NAME WOOD RIVER STP_CIT	TY OF			DIS	SCHARGE: (2-16)			PORT (DMR (17-19)		4.8 MGD	IN 84" I	NTR	)	* **
ADDRESS 501 W. FERGUSON AV		· · · · · · · · · · · · · · · · · · ·		IL00318	·			101	(SUBR 06)		Form Ap		•	2345
P.O. BOX 300				PER	MIT NUMBER		Di	SCHARGE NUMBER	F-FINAL		OMB No	. 2046	0-0004.	
WOOD RIVER, IL	62095		<del>-</del>		MON	ITORING P	ERIOD		- MAJOR		Approva	ıl exp	ires 05-31	j <b>-98</b>
FACILITY WOOD RIVER STP, CI			_	YEAR		DAY	YEAR	MO DAY	<u></u> cso		OCR 029	86		
LOCATION WOOD RIVER, IL 6209	5	<u> </u>	FROM	04	04	01 70	04	04 30		O DISCHA			***	10.0
ATTN:	<del> </del>	(3 Card Only) Q	UANTITY OR LOA			(4 Card Only)		(28-29) (30-3.	NOTE: Read	INSTRUCTION	is before		EXECUENCY	is ioiui'
PARAMETER		(46-53)	(54-61			(38-45		(16-53)	(54-61)	<u>'</u>		4O.	OF ANALYSIS	SAMPLE TYPE
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PROJECT MANAGER	THE	FICANT PENALTIES FOR SUI POSSIBILITY OF FINE AND II	MPRISONMENT, 8	EE 18 U.S.C	: es 1001 AND		SIG	NATURE OF PRIN	CIPAL EXECUTIVE	618	254-40	74	04 0	5 05
TYPED OR PRINTED	\$10,0	S.C. es 1319. (Penalties 000 and or maximum im	under mest state prisonment of b	tutes may t etween 6 m	nctude fines tooths and 5	up to years.)		OFFICER OR AUTI-	HORIZED AGENT	AREA CODE	NUMBER	R	YEAR N	40 DAY
COMMENT AND EXPLANATION OF ANY VIOLATION RECIEVING WATER: MISSISS FLOWS ESTIMATED DUE TO N	IPPI RIVER.	NUMBE	R OF DAY	S OF	DISCHAR	RGE: 2					BC	(		)PY
EPA Form 3320-1 (Rev )Previous editio			(REPLACE	S EPA FOR	M T-40 WHICK	NOT BE U	ISED.)		, , , , , , , , , , , , , , , , , , ,	<u></u>		<del></del> ;	PAGE	OF 1

PERMITTEE N/ ORESS (Include Facility Name/). On If different)  NAME WOOD RIVER STP, C	PITY OF				IAL POLL SCHARGE (2-16)	CHARGE E MONITOR	ELIMINATIO RING RE	N SYSTEM PORT (17-1)	(DMR)	CSO (OVER 4	e Mei	NO INI C	יי ואד	D)	
ADDRESS 501 W. FERGUSON A		<del></del>		IL0031	· · ·			A01	<del>"</del> 1	(SUBR 06)	.o moi		Appro		12345
P.O. BOX 300			_		RMIT NUMBER		<b></b>	HICHARGE N	IUMBER	F - FINAL				40-0004.	
· · · · · · · · · · · · · · · · · · ·	L 62095									MAJOR		Appri	oval ex	cpires 05-3	1-98
FACILITY WOOD RIVER STP, C			_	YEAR	MON	DAY DAY	YEAR	MO	DAY	CSO		OCR		•	
LOCATION WOOD RIVER, IL 620		<del></del>	FROM	04	·	01 10	04	05	31		DISCHA			***	
ATTN:		·····	<del></del>		(22-23) (	<del></del>	(26-27)	1		NOTE: Read In			ore co	mpleting t	his form.
PARAMETER		(3 Card Only) Q (46-53)	UANTITY OR LOA	ADING		(4 Card Only			TTY OR CON 46-53)	ICENTRATION (54-61)			NO.	FREQUENCY OF	SAMPLE
(32-37)		AVERAGE	MAXIMU	·	UNITS	MINIM		T	VERAGE	MAXIMUM		UNITS	EX	analysis	TYPE
DOD 5 DAY		AVEIVAGE	10/25/000		Olilia	(41)		<del></del>	*Elovor	M/A/MUM	<del></del>		(62-63)	(64-68)	(69-70)
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BRUCE MURPHY	ON M	IY INQUIRY OF THOSE IND INING THE INFORMATION, I , ACCURATE AND COMPLE	MOUALS MIMEDI BELIEVE THE SU	ATELY REA	SPONSIBLE FOR	Ř	13	. 1		L.	<del></del>			<u> </u>	
PROJECT MANAGER	SIGN	FICANT PENALTIES FOR SUR POSSIBILITY OF FINE AND #	MITTING FALSE II MPRISONMENT, SI	NEORMATIO	N, INCLUDING		S. S.	NATURE O	E PENCIPAI	L EXECUTIVE	618	254	4074	04	06 07
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COMMENT AND EXPLANATION OF ANY VIOLATE				······································				<del></del>			, <u>, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	4			
RECIEVING WATER: MISSIS			R OF DAY	'S OF I	DISCHAF	RGE: 7						BC		()	JP'

(REPLACES EPA FORM T-40 WHICE

EPA Form 3320-1 (Re 2005) Previous editions may be used.

PERMITTEE N. XORESS (Include Facility Name/L. on If different)						SCHARGE 6 MONITOR		PORT	(DMR)	CSO (OVER 4	0.8400	1 IAT (1 41	" IRIT	D.		
HAME WOOD RIVER STP, C ADDRESS 501 W. FERGUSON A				IL0031	(2-16) IR <b>52</b>		Г	<i>(17-19</i> <b>A01</b>		(SUBR 06)	.o iyigi	Form.		•	12345	5
P.O. BOX 300	YE,		<del></del>		RMIT NUMBER	<del></del>		HICHARGE N		F - FINAL				40-0004.		
WOOD RIVER,	620	95					<del></del>			MAJOR				olres 05-	31-98	
FACILITY WOOD RIVER STP. C		<u> </u>		1		ITORING I				CSO		OCR		(p) 00 40		
LOCATION WOOD RIVER, IL 620		······································	FROM	M 04	06	01 TO	YEAR 04	MO 06	30		DISCHA	F		***		
ATTN:				(20-21)		24-25)	(26-27)			NOTE: Read in			re co	mpleting	his fo	m,
PARAMETER		(3 Card Only) (46-53)	QUANTITY OR U	OADING	1.5-25/	(4 Card Only (38-4	,)	QUANT		CENTRATION (54-61)			NO. EX	FREQUENCY OF ANALYSIS		MPLE TYPE
(32-37)		AVERAGE	MAXIN	MUM	UNITS	MINIM	IUM	AV	/ERAGE	MUMIXAM		UNITS	(62-63)	(64-68)	1	69-70)
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PERMITTEE NAME ORESS (Include Facility Name/Location if different) DISCHARGE MONITORING REPORT (DMR) CSO (OVER 4.8 MGD IN 84" INTR) WOOD RIVER STP. CITY OF (17-19) (2-16) 12345 IL0031852 A01 (SUBR 06) Form Approved. ADDRESS 501 W. FERGUSON AVE. PERMIT NUMBER DISCHARGE NUMBER F - FINAL OMB No. 2040-0004. P.O. BOX 300 MAJOR Approval expires 05-31-98 WOOD RIVER. 1L 62095 MONITORING PERIOD CSO OCR 0298 WOOD RIVER STP. CITY OF FACILITY MO DAY YEAR MO DAY YEAR LOCATION WOOD RIVER, IL 62095 FROM TO \*\*\* NO DISCHARGE 04 10 01 10 31 04 NOTE: Read Instructions before completing this form. (20-21) (22-23) (24-25) (26-27) (28-29) (10-31) ATTN: FREQUENCY QUANTITY OR CONCENTRATION 3 Card Only) QUANTITY OR LOADING (4 Card Only) (38-45 SAMPLE PARAMETER (54-61) (46-53) (54-61) (45-53) OF ĒΧ TYPE ANALYSIS (32-37) **AVERAGE** MAXIMUM UNITS **AVERAGE** MAXIMUM UNITS MINIMUM (69-70) (62-63) (64-68) BOD, 5-DAY 19) 375 GR SAMPLE 0 \*\*\*\* \*\*\*\*\* \*\*\*\*\* 109 \*\*\* MEASUREMENT (20 DEG. C) \*\*\* 00310 1 0 0 REPORT PERMIT \*\*\*\* \*\*\*\* \*\*\*\* \*\*\* DLY When DIS GRAB **EFFLUENT GROSS VALUE** REQUIREMENT MG/L MO. AVG SOLIDS, TOTAL (19) 375 GR SAMPLE 0 153 \*\*\*\* \*\*\* \*\*\*\* \*\*\*\* MEASUREMENT SUSPENDED \*\*\* 00530 1 0 0 REPORT PERMIT DLY When OIS GRAB \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* **EFFLUENT GROSS VALUE** REQUIREMENT MO. AVG MG/L 375 COLIFORM, FECAL SAMPLE (13)\*\*\*\* 2850000 \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT **GENERAL** \*\*\* 74055 1 0 1 # / 100 ML DAILY WH REPORT PERMIT \*\*\*\* \*\*\*\*\* GRAS \*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE DISCHR REQUIREMENT 375 FLOW, TOTAL 3R) SAMPLE 0 £S \*\*\*\* 31.25 \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT DAILY CONTIN \*\*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE M GAL REQUIREMENT MO. TOTAL SAMPLE MEASUREMENT PERMIT - 4 REQUIREMENT SAMPLE MEASUREMENT PERMIT St. Zugar REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIX AND BASED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE ON MY INCURY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS **BRUCE MURPHY** TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR BUBMITTING FALSE INFORMATION, INCLUDING PROJECT MANAGER THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. . 1001 AND 618 254-4074 04 11 05 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. no 1319. Penalties under these statutes may include fines up to МО DAY OFFICER OR AUTHORIZED AGENT NUMBER YEAR TYPED OR PRINTED \$10,000 and or maximum imprisonment of between 6 months and 5 years.) COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 4

NATIONAL POLUTAN CHARGE ELIMINATION SYSTEM (NPDES)

EPA Form 3320-1 (Rev. 5 Trevious editions may be used.

FLOWS ESTIMATED DUE TO NO FLOW METER.

PERMITTEE NAME RESS (Include Facility Name/Location (f different) NATIONAL POLUTANI. JHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) CSO (OVER 4.8 MGD IN 84" INTR) WOOD RIVER STP, CITY OF (2-16) IL0031852 A01 (SUBR 06) Form Approved. 12345 501 W. FERGUSON AVE. ADDRESS PERMIT NUMBER DISCHARGE NAMBER F - FINAL P.O. BOX 300 OMB No. 2040-0004. MAJOR WOOD RIVER, IL 62095 Approval expires 05-31-98 MONITORING PERIOD WOOD RIVER STP, CITY OF CSO OCR 0298 FACILITY MO DAY YEAR MO DAY YEAR LOCATION WOOD RIVER, IL 62095 FROM TO \*\*\* NO DISCHARGE 04 12 01 04 12 31 NOTE: Read instructions before completing this form. ATTN: (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) (3 Card Only) (46-53) QUANTITY OR LOADING QUANTITY OR CONCENTRATION FREQUENCY (4 Card Only) (38-45 SAMPLE NO. PARAMETER (54-61) (46-53) (54-61) TYPE EΧ (32-37) ANALYSIS AVERAGE UNITS MINIMUM AVERAGE MAXIMUM MAXIMUM UNITS (62-63)(64-68) (69-70) BOD, 5-DAY SAMPLE (19)0 \*\*\*\* \*\*\*\*\* \*\*\*\*\* 11 \*\*\*\* MEASUREMENT (20 DEG. C) 100310 1 0 0 \*\*\*\* REPORT PERMIT DLY When DIS GRAS \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* **EFFLUENT GROSS VALUE** REQUIREMENT MO. AVG MG/L SOLIDS, TOTAL SAMPLE (19)0 \*\*\*\* \*\*\*\* \*\*\*\* 45 \*\*\*\* MEASUREMENT SUSPENDED \*\*\*\* 00530 1 0 0 REPORT PERMIT \*\*\*\*\* \*\*\*\* \*\*\*\* DLY When DIS GRAB \*\*\*\* EFFLUENT GROSS VALUE REQUIREMENT MG/L MO. AVG 375 COLIFORM, FECAL (13)SAMPLE \*\*\*\* \*\*\*\* 200000 \*\*\* \*\*\*\*\* MEASUREMENT **GENERAL** 74055 1 0 1 \*\*\*\* REPORT # / 100 ML DAILY WH PERMIT \*\*\*\* GRAB \*\*\*\* \*\*\* \*\*\*\*\* DISCHR **EFFLUENT GROSS VALUE** REQUIREMENT \*\*\*\* 375 FLOW, TOTAL 3R) ES SAMPLE 0 \*\*\*\* 24.00 \*\*\*\*\* \*\*\*\*\* \*\*\*\* MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT \*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\* DAILY CONTIN EFFLUENT GROSS VALUE REQUIREMENT M GAL MO. TOTAL SAMPLE MEASUREMENT PERMIT REQUIREMENT : SAMPLE MEASUREMENT PERMIT AND REQUIREMENT **SAMPLE** MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN, AND BASED MAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE ON MY PIQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS **BRUCE MURPHY** TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING PROJECT MANAGER THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. ## 1001 AND 618 254-4074 05 01 04 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. == 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) AREA TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT YEAR MO NUMBER DAY COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) -DMR 1-6-05 RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 1 FLOWS ESTIMATED DUE TO NO FLOW METER. BC EPA Form 3320-1 (Rev. 8-5) Aous editions may be used. (REPLACES EPA FORM T-40 WHICH MA) BE USED.) PAGE 1 1

PERMITTEE NAM. DDRESS (Include Facility Name/Location if different) NATIONAL POLUTAN SCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) CSO (OVER 4.8 MGD IN 84" INTR) NAME WOOD RIVER STP, CITY OF (2-16) (17-19) 12345 IL0031852 A01 (SUBR 06) Form Approved. 501 W. FERGUSON AVE. ADDRESS PERMIT NUMBER DISCHARGE MIMBER F - FINAL P.O. BOX 300 OMB No. 2040-0004. MAJOR WOOD RIVER, IL. 62095 Approval expires 05-31-98 MONITORING PERIOD CSO FACILITY WOOD RIVER STP. CITY OF **OCR 0298** YEAR DAY YEAR МО DAY MO 安安安 LOCATION WOOD RIVER, IL 62095 FROM \*\*\* NO DISCHARGE 05 01 01 05 01 31 NOTE: Read instructions before completing this form. ATTN: (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) QUANTITY OR CONCENTRATION QUANTITY OR LOADING (4 Card Only) (38-45) 3 Card Only) FREQUENCY SAMPLE PARAMETER (54-61) (34-51) (46-53) OF ĒΧ TYPE ANALYSIS (32-37) MAYBUR UNITS MINIMUM AVERAGE MAXIMUM UNITS AVERAGE (62-63)(64-68) (69-70) BOD, 5-DAY SAMPLE 19) 375 0 21 \*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT (20 DEG. C) 00310 1 0 0 \*\*\* REPORT PERMIT \*\*\*\*\* DLY When DIS GRAB \*\*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE RECUIREMENT MO, AVG MG/L SOLIDS, TOTAL SAMPLE 19) 375 0 \*\*\*\* \*\*\*\* 63 \*\*\*\* \*\*\*\* MEASUREMENT SUSPENDED \*\*\* 00530 1 0 0 REPORT PERMIT \*\*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\* DLY When DIS GRAB **EFFLUENT GROSS VALUE** REQUIREMENT MG/L MO. AVG COLIFORM, FECAL SAMPLE (13) 0 \*\*\*\* 210000 \*\*\* \*\*\*\*\* \*\*\*\* MEASUREMENT GENERAL \*\*\* DAILY WH 74055 1 0 1 REPORT #/100 ML PERMIT \*\*\*\* \*\*\*\* \*\*\*\*\* \*\*\*\* GRAB DISCHR **EFFLUENT GROSS VALUE** REQUIREMENT \*\*\*\* 376 FLOW, TOTAL SAMPLE 3R) ES 66.50 0 \*\*\* \*\*\*\* \*\*\* 火火火火火火 MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT \*\*\*\* \*\*\*\* \*\*\*\* DAILY CONTIN \*\*\*\* EFFLUENT GROSS VALUE REQUIREMENT M GAL MO: TOTAL SAMPLE MEASUREMENT PERMIT 3432 136 REQUIREMENT. SAMPLE MEASUREMENT PERMIT 100 REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT. I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS **BRUCE MURPHY** TRUE, ACCURATE AND COMPLETE, I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION. INCLUDING PROJECT MANAGER THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. se 1001 AND 618 254-4074 05 02 02 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. == 1319. (Penalties under these statutes may include fines up to TYPED OR PRINTED \$10,000 and or maximum imprisonment of between 6 months and 5 years.) OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO DAY COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 4

EPA Form 3320-1 (Rev. 8-93) wylous editions may be used.

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p-DMR 2.15.05

PERMITTEE N DRESS (Include on if different) NATIONAL POLU. CHARGE EUMINATION SYSTEM (NPDES) Facility Name/Lo. DISCHARGE MONITORING REPORT (DMR) CSO (OVER 4.8 MGD IN 84" INTR) WOOD RIVER STP, CITY OF (2-16) (17-19)12345 IL0031852 A01 (SUBR 06) Form Approved. 501 W. FERGUSON AVE. ADDRESS PERMIT NUMBER F - FINAL OMB No. 2040-0004. P.O. BOX 300 DISCHARGE NUMBER MAJOR Approval expires 05-31-98 WOOD RIVER. 62095 IL. MONITORING PERIOD CSO OCR 0298 WOOD RIVER STP. CITY OF FACILITY DAY YEAR MO DAY YEAR MO FROM \*\*\* LOCATION WOOD RIVER, IL 62095 05 02 01 TO 05 02 28 \*\*\* NO DISCHARGE NOTE: Read Instructions before completing this form. ATTN: (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) 3 Card Only) QUANTITY OR LOADING (4 Card Only) (38-45) QUANTITY OR CONCENTRATION NO. SAMPLE PARAMETER (46-33) (54-61) (46-53) (34-61) ΕX TYPE ANALYSIS (32-37) AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS (69-70) (62-63)(64-68) BOD, 5-DAY SAMPLE 19) 375 0 30 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\*\* MEASUREMENT (20 DEG. C) \*\*\* 00310 1 0 0 REPORT PERMIT: DLY When DIS GRAB \*\*\*\* \*\*\*\* \*\*\*\* \*\*\* MG/L **EFFLUENT GROSS VALUE** REQUIREMENT MO. AVG SOLIDS, TOTAL SAMPLE (19)375 GR 0 147 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT SUSPENDED \*\*\* 00530 1 0 0 REPORT PERMIT . \*\*\*\* \*\*\*\*\* DLY When DIS GRAB \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE REQUIREMENT MG/L MO. AVG 375 COLIFORM, FECAL **SAMPLE** (13)GR 0 \*\*\*\*\* \*\*\*\* \*\*\*\* 190000 \*\*\*\* MEASUREMENT GENERAL \*\*\*\* 74055 1 0 1 #/100 ML DAILY WH REPORT PERMIT \*\*\*\* GRAB -\*\*\*\* \*\*\*\* \*\*\*\* DISCHR **EFFLUENT GROSS VALUE** REQUIREMENT \*\*\* 375 FLOW, TOTAL 3R) SAMPLE 13.00 0 \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT \*\*\*\* DAILY CONTIN \*\*\*\*\* 大大大大大大 \*\*\*\*\* EFFLUENT GROSS VALUE REQUIREMENT M GAL MO. TOTAL SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT ? AND THE STATE OF THE 16 · 1860 - 1 REQUIREMENT. SAMPLE MEASUREMENT PERMIT REQUIREMENT  $\mathcal{P}^{(n)} = \bigcup_{i \in \mathcal{I}_{n}} \mathbf{r}_{i,n}^{(n)}$ I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED TELEPHONE DATE NAME/TITLE PRINCIPAL EXECUTIVE OFFICER AND AN FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRTY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OPTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS **BRUCE MURPHY** TRUE, ACCURATE AND COMPLETE, I AM AWARE THAT THERE ARE **PROJECT MANAGER** SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING 07 THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 16 U.S.C. 66 1001 AND 254-4074 05 03 618 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. so 1819. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) AREA YEAR TYPED OR PRINTED NUMBER MO OFFICER OR AUTHORIZED AGENT DAY COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 2 FLOWS ESTIMATED DUE TO NO FLOW METER. BC PAGE 1 EPA Form 3320-1 (Rev. 8-9 ious editions may be used. (REPLACES EPA FORM T-40 WHICH MA SE USED.

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PERMITTEE N DRESS (Include on if different) NATIONAL PC DISCHARGE ELIMINATION SYSTEM (NIDES) Facility Name/. DISCHAR MONITORING REPORT CSO (OVER 4.8 MGD IN 84" INTR) NAME WOOD RIVER STP. CITY OF (2-16) (17-19) ADDRESS 501 W. FERGUSON AVE. Form Approved. 12345 IL0031852 A01 (SUBR 06) PERMIT NUMBER P.O. BOX 300 OISCHARGE NUMER F-FINAL OMB No. 2040-0004. WOOD RIVER. 62095 MAJOR Approval expires 05-31-98 MONITORING PERIOD FACILITY WOOD RIVER STP, CITY OF CSO OCR 0298 DAY YEAR MO YEAR MO DAY LOCATION WOOD RIVER, IL 62095 FROM \*\*\* \*\*\* NO DISCHARGE X TO 05 04 01 05 30 04 NOTE: Read instructions before completing this form. ATTN: (26-27) (28-29) (30-31) (20-21) (22-23) (24-25) (3 Card Only) QUANTITY OR LOADING (4 Card Only) (38-45) QUANTITY OR CONCENTRATION PARAMETER NO. SAMPLE (46-53 (54-61) (46-53) (54-61) EΧ ANALYSIS TYPE (32-37) **AVERAGE** MAXIMUM UNITS MINIMUM MAXIMUM UNITS AVERAGE 62-63) (64-68) (69-70) BOD, 5-DAY SAMPLE 19) 375 0 \*\*\*\*\* \*\*\*\* \*\*\*\*\* \*\*\*\* MEASUREMENT (20 DEG, C) \*\*\* 00310 1 0 0 REPORT PERMIT DLY When DIS GRAB \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* **EFFLUENT GROSS VALUE** REQUIREMENT MG/L MO. AVG SOLIDS, TOTAL SAMPLE (19) 375 \*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\*\* MEASUREMENT SUSPENDED 00530 1 0 0 \*\*\*\* PERMIT REPORT \*\*\*\*\* \*\*\*\*\* \*\*\* \*\*\*\* DLY When DIS GRAB **EFFLUENT GROSS VALUE** MG/L REQUIREMENT MO. AVG 375 COLIFORM, FECAL SAMPLE ( 13) GR \*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\*\* MEASUREMENT GENERAL 74055 1 0 1 \*\*\* DAILY WH # / 100 ML REPORT PERMIT GRAB \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\*\* DISCHR EFFLUENT GROSS VALUE REQUIREMENT 375 FLOW, TOTAL SAMPLE 3R) ES O \*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT \*\*\* 82220 1 0 0 REPORT : PERMIT \*\*\*\* DAILY CONTIN \*\*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE REQUIREMENT M GAL MO. TOTAL SAMPLE MEASUREMENT 3.3 PERMIT 4 REQUIREMENT SAMPLE MEASUREMENT **对热源** PERMIT eksetje o osest t REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED TELEPHONE DATE NAME/TITLE PRINCIPAL EXECUTIVE OFFICER AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIOUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS BRUCE MURPHY TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE PROJECT MANAGER SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING 254-4074 05 05 05 THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 U.S.C. BS 1001 AND 618 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. is 1318. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) AREA YEAR MO DAY OFFICER OR AUTHORIZED AGENT NUMBER COMMENT AND EXPLARATION OF ANY VIOLATIONS (Reference all attachments here ) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 0 BC

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PERMITTEE NAN ORESS (Include Facility Name/Location if different) JCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR) CSO (OVER 4.8 MGD IN 84" INTR) WOOD RIVER STP. CITY OF (2-16)(17-19) IL0031852 Form Approved. **601 W. FERGUSON AVE.** A01 (SUBR 06) 12345 ADDRESS PERMIT NUMBER P.O. BOX 300 DISCHARGE NUMBER F - FINAL OMB No. 2040-0004. MAJOR WOOD RIVER. 62095 Approval expires 05-31-98 MONITORING PERIOD CSO FACILITY WOOD RIVER STP, CITY OF OCR 0298 YEAR MO DAY YEAR MO DAY WOOD RIVER, IL 62095 FROM LOCATION 05 05 TO 05 05 \*\*\* NO DISCHARGE X 大大大 01 31 NOTE: Read Instructions before completing this form. ATTN: (20-21) (22-23) (24-25)(26-27)(28-29) (30-31) (3 Card Only) (46-53) QUANTITY OR LOADING ( 4 Card Only ) ( 38-45 ) QUANTITY OR CONCENTRATION FREQUENCY PARAMETER NO. SAMPLE (54-61) (46-53) (54-61) EΧ TYPE ANALYS(S (32-37) MAXIMUM AVERAGE UNITS MINIMUM **AVERAGE** MAXIMUM UNITS (62-63)(64-68) (69-70) BOD, 5-DAY SAMPLE (19)375 \*\*\*\* 0 \*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT (20 DEG. C) 00310 1 0 0 \*\*\*\* REPORT PERMIT \*\*\*\* \*\*\*\*\* \*\*\*\* DLY When DIS GRAB \*\*\* EFFLUENT GROSS VALUE REQUIREMENT MG/L MO. AVG SOLIDS, TOTAL SAMPLE 19) \*\*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT SUSPENDED \*\*\* 00530 1 0 0 REPORT PERMIT \*\*\*\* \*\*\* \*\*\* \*\*\* DLY When DIS GRAS EFFLUENT GROSS VALUE REQUIREMENT MG/L MO. AVG SAMPLE COLIFORM, FECAL (13)0 \*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT GENERAL \*\*\*\* 74055 1 0 1 #/100 ML DAILY WH REPORT PERMIT \*\*\* \*\*\*\* \*\*\*\* \*\*\*\* GRAB DISCHR **EFFLUENT GROSS VALUE** REQUIREMENT \*\*\*\* 375 FLOW, TOTAL 3R) ES SAMPLE O \*\*\*\*\* \*\*\*\* \*\*\*\*\* \*\*\*\*\* MEASUREMENT \*\*\* 82220 1 0 0 REPORT PERMIT \*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* DAILY CONTIN. **EFFLUENT GROSS VALUE** REQUIREMENT M GAL MO. TOTAL SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT 方 7.40mm · PERMIT V REQUIREMENT 1. 1. 1. 12 SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED DATE NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS **BRUCE MURPHY** TRUE, ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING PROJECT MANAGER 05 80 THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 00 1001 AND 618 254-4074 06 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.C. so 1319. (Penalties under these statutes may include fines up to AREA YEAR MO TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT NUMBER DAY \$10,000 and or maximum imprisonment of between 6 months and 5 years.) COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 0 FLOWS ESTIMATED DUE TO NO FLOW METER. BC

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EPA Form 3320-1 (Rev. 8

PERMITTEE N. DRESS (Include Facility Name) on if different)  NAME WOOD RIVER STP. (	NTV OF				NAL FOL	DISCHARGE MONITORI		ORT	(DMR)	CSO (OVER 4.	R MGD IN I	a" IN	TR)	
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(ANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITTE IE/ADDRESS (Include ocation if different) NATIONAL Facility No. DISCI ...GE MONITORING REPORT (DMR) (17-19) CSO (OVER 4.8 MGD IN 84" INTR) WOOD RIVER STP, CITY OF (2-16) NAME 12345 IL0031852 A01 (SUBR 06) Form Approved. ADDRESS 501 W. FERGUSON AVE. PERMIT NUMBER DISCHARGE NUMBER F-FINAL OMB No. 2040-0004. P.O. BOX 300 MAJOR Approval expires 05-31-98 WOOD RIVER. 62095 MONITORING PERIOD CSO **OCR 0298** WOOD RIVER STP, CITY OF YEAR MO DAY YEAR МО DAY LOCATION WOOD RIVER, IL 62095 FROM \*\*\* NO DISCHARGE l x 07 31 05 07 01 05 NOTE: Read Instructions before completing this form. (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) ATTN: QUANTITY OR CONCENTRATION 3 Card Only QUANTITY OR LOADING (4 Card Only) FREGUENCY NO. SAMPLE PARAMETER 146-53 (54-61) ΩF (54-61) (38-45) 146-531 EΧ ANALYSIS TYPE (32-37) **AVERAGE** MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS (62-63) (69-70) (64-68) 19) BOD, 5-DAY SAMPLE 0 87 \*\*\*\*\* \*\*\*\* \*\*\*\*\* \*\*\*\* MEASUREMENT (20 DEG. C) \*\*\*\* 00310 1 0 0 REPORT PERMIT 2: DLY When DIS GRAB \*\*\*\*\* \*\*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUE MG/L REQUIREMENT MO. AVG (19)SOLIDS, TOTAL SAMPLE 0 223 \*\*\*\* \*\*\*\* \*\*\*\*\* \*\*\*\* MEASUREMENT SUSPENDED \*\*\* 00530 1 0 0 REPORT PERMIT \* DLY When DIS GRAB \*\*\*\* \*\*\*\* \*\*\*\* \*\*\* MG/L EFFLUENT GROSS VALUE REQUIREMENT MO. AVG COLIFORM, FECAL (13)SAMPLE 0 \*\*\*\*\* 2100000 \*\*\*\*\* \*\*\*\* \*\*\*\* MEASUREMENT GENERAL \*\*\* DAILY WH 74055 1 0 1 REPORT # / 100 ML PERMIT \*\*\*\* GRAB \*\*\*\* \*\*\*\* \*\*\*\*\* DISCHR **EFFLUENT GROSS VALUE** REQUIREMENT \*\*\* 375 FLOW, TOTAL SAMPLE 3R) ES 25.50 0 \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* \*\*\*\* MEASUREMENT \*\*\*\* 82220 1 0 0 REPORT PERMIT \*\*\*\*\* \*\*\*\* DAILY CONTIN \*\*\*\* \*\*\* EFFLUENT GROSS VALUE M GAL REQUIREMENT MO. TOTAL SAMPLE MEASUREMENT PERMIT الإستان والمناز الجرابط Na. REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN: AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR **BRUCE MURPHY** OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. 98 1001 AND PROJECT MANAGER 618 254-4074 05 08 15 SIGNATURE OF PRINCIPAL EXECUTIVE 33 U.S.G. as 1318. (Penalties under these statutes may include fines up to AREA OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO DAY TYPED OR PRINTED \$10,000 and or maximum imprisonment of between 6 months and 5 years.) COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) e-DMR 8.15.05 RECIEVING WATER: MISSISSIPPI RIVER. NUMBER OF DAYS OF DISCHARGE: 3 BC FLOWS ESTIMATED DUE TO NO FLOW METER. EPA Form 3320-1 (RE -95)Previous editions may be used. (REPLACES EPA FORM T-40 WE MAY NOT BE USED.) PAC A OF

NAME WOOD RIVER STP, C ADDRESS 501 W. FERGUSON A P.O. BOX 300 WOOD RIVER.	VE.			IL003	(26) 1852 RMIT JUMBER			401 HICHARGE MANSER	CSO (OVER 4.8 f (SUBR 06) F - FINAL	Form OMB	Appro No. 20	oved. 040-0004,	12345
FACILITY WOOD RIVER STP, C			<del></del>	WEAR		ITORING P			Major Cso	OCR (		xpires 05-3	1-20
LOCATION WOOD RIVER, IL 620		·	FROM	VEAR 05		01 TO	YEAR 05	08 31		CHARGE	×	***	
ATTN:				(20-21)	<del></del>	14-25)	(26-27)	(28-29) (30-31)	NOTE: Read Instru	uctions befo	re co		ils form.
PARÂMETER		(3 Card Only) C (46-53)	UANTITY OR LO			(4 Card Only) (38-45		QUANTITY OR CONC (46-53)	ENTRATION (54-61)		NO.	FREDUENCY OF	SAMPL TYPE
(32-37)		AVERAGE	MAXIMU	JM.	UNITS	MINIMU	M	AVERAGE	MUMIXAM	UNITS	EX (62-63)	ANALYSIS (64-68)	(69-7
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	***	****	*		****	*	123	****	( 19)	0	375	GR
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	***	****		***	****	*	REPORT MO. AVG	****	MG/L		DLY When DIS	GRA8
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	****	****	*		****	*	332	*****	( 19)	0	375	GR
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	****	* .	****	****	*	REPORT MO. AVG	****	MG/L		DLY When Dis	GRAB
COLIFORM, FECAL GENERAL	SAMPLE MEASUREMENT	***	****	*		***	*	****	5900000	( 13)	0	375	GR
74055 1 0 1 EFFLUENT GROSS VALUE	PERMIT. REQUIREMENT	*****	****	*	***	****		*****	REPORT	# / 100 M	L.	DAILY WH DISCHR	GRAB
FLOW, TOTAL	SAMPLE MEASUREMENT	***	69.75		( 3R)	****	*	****	****		0	375	ES
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	SAMPLE MEASUREMENT												
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BRUCE MURPHY PROJECT MANAGER	OBTAINE TRUE, SIGNIFK	INCORP. OF THOSE NOW. I ACCURATE AND COMPLET CAN'T PENULTIES FOR SURN SEIBILITY OF FINE AND HA	BELIEVE THE SUR E. I AM AWAR BITING FALSE IN	emetted in le that ti iformation	Formation is Here are I, including		D.	May	eky 61	R   25A-	4074	05 0	09 1
DASED OF PRINTED	33 U.S.G	C. es 1319. (Penalties u O and or maximum impr	nder these stats	itex may t	nclude fines i			NATURE OF PRINCIPAL I OFFICER OR AUTHORIZE	32001112				MO E
NOTES DO YEAR HE MODERNE EPOS CO.	ISI Reference all attache	and the second s		,					9/15/05			. <del>1</del>	

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CITY OF WOOD RIVER W.W.T.F. 559 State Aid Road, P.O. Box 343 Wood River, IL 62095

Tel.: 618-254-4074 Fax: 618-254-4075 www.veoliswatema.com



TO: Reference Hoffman

RECIPIENT FAX:

FROM: Jim Howard

DATE: 6-22-06

SUBJECT: C.S.O. Data

2002 -> present

**TOTAL PAGES:** including this page

NO.

YY/YY/YY TSS (ms/L)
YY/YY/YY BOD (ms/L)
YY/YY/YY Flow (M6) (millions of gallons)

THIS TRANSMISSION CONTAINS CONFIDENTIAL INFORMATION INTENDED FOR USE ONLY BY THE ABOVE NAMED RECIPIENT READING.
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(COLLECT), AND RETURN THE ORIGINAL MESSAGE TO US AT THE ABOVE ADDRESS VIA U.S. POSTAL SERVICE.



	Number of San	noiss	380	00.44	maitu im adds			tss Mg/L Bod Mg/	<u>_</u>	, ~~	· · · · · · · · · · · · · · · · · · ·		
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_	Vilnimum		0	All Da	ites	None	None	None	None	None			
	vaximum		1,068										
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N	lean +3 Std D	ev	496	3.27 X	Mean	306							
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No	Date	Value	No	. Date	Value								
S 1	1/30/2002	21 1/2		1 1 2 2 2	147								
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3_	1/30/2002	4 M6	36		82								
4	2/19/2002	622	37	5/16/2002	135					•			
9 5	2/19/2002	61 •	38	5/16/2002	83								
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13	3/28/2002	309	46	8/10/2002	297								
14	3/28/2002	113	47	6/10/2002	59								
1 <u>5</u> 16	3/28/2002	1	48	6/10/2002	6								
	4/8/2002	168	49	6/11/2002	139								
17	4/8/2002	72	50	6/11/2002	30								
16	4/8/2002	2	51	6/11/2002	12								
19	4/19/2002	113	52	6/25/2002	324								
20 21	4/19/2002 4/19/2002	61	53	6/25/2002	330								
22	4/21/2002	10 106	54	6/25/2002	5								
23	4/21/2002	49	55 56	7/28/2002	178								
24	4/21/2002	1	55 57	7/26/2002 7/26/2002	5B								
25	4/27/2002	154	58	8/11/2002	6 93								
26	4/27/2002	147	59	8/11/2002	27			•					
27	4/27/2002	10	60	8/11/2002	4 ·								
28	5/6/2002	211	61	8/16/2002	236								
29	5/6/2002	118	62	8/16/2002	96								
30	5/8/2002	18	83	8/16/2002	4								
31	5/7/2002	34	64	8/18/2002	30								
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	ne 22, 20						CS	O TSS	MG/L	(MG/L) C	JC .		Page 2	J L J
No.	Date	Value						Flor	V MG					N
67	8/19/2002	94	No.	Oate	Value	No.	Date	Value	No.	Date	Value			N
68	8/19/2002	13	114	4/4/2003	107	160		123	206					0
69	8/19/2002	7	115		3	161	10/9/2003	4	207	5/19/2004	30			6
70	8/23/2002	128	116	4/20/2003	88	162		112	208	5/19/2004	16			
71	8/23/2002	69	117		19	163		98	209					:60
72	8/23/2002	4	118	4/20/2003	3	164	11/1/2003	2		5/19/2004	4			υ
73	9/17/2002	422	119	4/24/2003	53	165		62	210		23			4
74	9/17/2002	62	120	4/24/2003	48	166	11/17/2003	15	211	5/25/2004	17			~ <b>3</b>
75	9/17/2002	5	121	4/24/2003	4	167			212		7			Q)
76	9/19/2002	140	122		<del>7</del> 54	168	11/17/2003	29	213		286	•		
77	9/19/2002	34	123	4/25/2003	58			57	214	5/26/2004	134			
78	9/19/2002	4		4/25/2003	6	169	11/18/2003	17	215	-	5			
79	9/20/2002	50	125	4/28/2003	_	170		/	216	5/27/2004	60			_
80	9/20/2002	54			612	171		790	217	5/27/2004	18			3Sn
81	9/20/2002	0	126	4/28/2003	158	172		563	218		17			
82	10/4/2002	149	127	4/28/2003	3	173	12/9/2003	1	219	5/30/2004	105			<b>124.</b>
83	10/4/2002	84	128	5/4/2003	140	174	12/22/2003	38	220	5/30/2004	24			<u>(†</u>
84	10/4/2002	1	129	5/4/2003	51	175	12/22/2003	26	221	5/30/2004	7			<u>m</u>
85	10/6/2002	135	130	5/4/2003	5	176	12/22/2003	6	222	6/9/2004	48			7
88	10/6/2002	106	131	5/8/2003	304	177	1/4/2004	55	223	5/9/2004	29			<u>_</u>
87	10/6/2002	1	132	5/8/2003	5	178	1/4/2004	25	224	6/9/2004	3			0
88	10/25/2002	77	133	5/8/2003	5	179	1/4/2004	14	225	6/15/2004	101			0
89	10/25/2002	52	134	5/10/2003	126	160	1/17/2004	54	226	6/15/2004	62			Ω.
90	10/25/2002	2		5/10/2003	5	181	1/17/2004	48	227	6/15/2004	2			<b>70</b>
91	11/5/2002	347		5/10/2003	10	182	1/17/2004	2	228	6/16/2004	69			
92	11/5/2002	132	137	5/30/2003	488	183	2/2/2004	4	229	6/16/2004	28			< 0
93	11/5/2002	2		5/30/2003	239	184	2/3/2004	176	230	6/16/2004	14			Ť
94	12/18/2002	236	139	5/30/2003	1		2/3/2004	74	231	7/8/2004	103			
95	12/18/2002	41	140	6/10/2003	143	186	3/4/2004	124	232	7/6/2004	5			_
96	12/18/2002	1		6/10/2003	8	187	3/4/2004	163	233	7/7/2004	14			•
97	2/14/2003	234		6/12/2003	80	188	3/4/2004	9	234	7/30/2004	48			
98	2/14/2003	119		6/12/2003	2		3/25/2004	118	235	7/30/2004	14			
99	2/14/2003	4		6/26/2003	57		3/25/2004	32	236	7/30/2004	11			
100	2/18/2003	1		6/26/2003	8	191	3/25/2004	3	237	8/4/2004	173			_
101	3/12/2003	54		8/26/2003	43	192	3/26/2004	249	238	8/4/2004	79			<b>⊕</b>
102	3/12/2003	44		7/18/2003	254	193	3/28/2004	92	239	8/4/2004	4			œ
103	3/12/2003	1		7/18/2003	37	194	3/26/2004	5		8/23/2004	197			_
104	3/19/2003	166	149	7/18/2003	4	195	4/24/2004	265		8/23/2004	66			N
	3/19/2003	72	150	7/28/2003	418	196	4/24/2004	143		8/23/2004	6			D)
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	3/20/2003		152	7/28/2003	1	198	4/30/2004	275		8/24/2004	42			4-
107		117	153	9/1/2003	40		4/30/2004	146		8/24/2004	4			407
	3/20/2003	<b>2</b> 6	154	9/1/2003	18		4/30/2004	14		8/25/2004	67			35
109	3/20/2003	1	155	9/1/2003	15		5/12/2004	349		8/25/2004	86			
	3/28/2003	538		9/26/2003	255		5/12/2004	158		8/25/2004	7			
		466		9/26/2003	93			1		9/15/2004	42			
		6 ~3r		9/26/2003	4			231		9/15/2004	3			
113	4/4/2003	375		10/9/2003	219			172		9/16/2004	<b>8</b> 9			
						=~~	· <del></del>	114	201	# 10/2004	08			

# CSO TSS MG/L (MG/L) QC BOD MG/L Flow MG

								BOD WELL
No.	Date	Value						Flow MG
252	10/12/2004	206	Nα.	Date	Value	No.	Date	Value
253	10/12/2004	11 <del>4</del>		6/8/2005	3	345	10/31/2005	172
254	10/12/2004	4		6/13/2005	232	346	10/31/2005	126
255	10/14/2004	140		6/13/2005	28		10/31/2005	17
256	10/14/2004	108		6/13/2005	9		11/14/2005	229
257	10/14/2004	3		6/25/2005	110	349		153
258	10/18/2004	46		6/25/2005	68		11/14/2005	5
259	10/18/2004	24		6/25/2005	10	351		38
260	10/18/2004	20		7/11/2005	58		11/28/2005	71
261	10/26/2004	218		7/11/2005	31	353	11/28/2005	20
262	10/26/2004	189		7/11/2005	7		1/10/2006	462
253	10/26/2004	5		7/15/2005	528		1/10/2006	88
284	11/1/2004	268		7/15/2005	196	_	1/10/2006	3
	11/1/2004	66	•	7/15/2005		357		164
	11/1/2004	24			10		-	
	11/11/2004	27		7/18/2005	82	358	1/28/2006	74
	11/11/2004	24		7/18/2005	35		1/28/2006	14
	11/11/2004	4	- , .	7/18/2005	9		2/16/2006	1,068
	11/24/2004	56		8/15/2005	377		2/16/2006	281
271		26		8/15/2005	212		2/16/2006	4
	11/24/2004	18		8/15/2005	50		3/8/2006	319
	12/6/2004	45		8/25/2005	488		3/8/2006	89
	12/6/2004	11	-	8/25/2005	148		3/8/2006	9
	12/6/2004	24		6/25/2005	8		3/9/2006	71
	1/2/2005	43		8/26/2005	322		3/9/2006	39
	1/2/2005		322	8/26/2005	78		3/9/2006	5
		29	323	B/26/2005	4		4/2/2006	139
	1/2/2005	13	324	8/29/2005	141		4/2/2006	50
	1/4/2005	98	325	8/29/2005	52	371	4/2/2006	5
	1/4/2005	14	326	8/29/2005	8	372	4/6/2006	539
281	1/4/2005	30	327	9/14/2005	42	373	4/6/2006	275
	1/5/2005	8	328	9/14/2005	26	374	4/6/2006	6
	1/5/2005	6	329	9/14/2005	2	375	5/10/2006	228
	1/5/2005	3		9/15/2005	111	376	5/10/2006	108
285	1/12/2005	104		9/15/2005	48	377	5/10/2006	5
286	1/12/2005	34		9/15/2005	5		5/24/2006	265
287	1/12/2005	21		9/19/2005	108		5/24/2006	152
288	2/7/2005	256		9/19/2005	20		5/24/2006	4
289	2/7/2005	44		9/19/2005	10	***	UIL-WEUGO	7
290	2/7/2005	4		9/25/2005	20			
291	2/13/2005	38		9/25/2005	12			
292	2/13/2005	16		9/25/2005	10			
293	2/13/2005	9		9/28/2005	291			
	3/22/2005	60						
	3/22/2005	32		9/28/2005	129			
	3/22/2005	32		9/28/2005	4			
	6/8/2005	744		10/20/2005	210			
	6/8/2005	339		10/20/2005	123			
200	~ VIEUV	JJ0	344	10/20/2005	2			

Page 3

### CSO FECAL #/100 ML (#/100 ML) QC

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N	umber of Sam	ples	104	oc u	mits in effect								······································	
_	verage		1,130,			Lini					Date	Explanation		
	inimum		7,000			UÇL	UWL	QC MEAN	LWL	<b>LCF</b>				
				All Da	les	None	None	None	Nane	None				
	aximum		11,000											
	ange		10,993											
V	ariance		2,879,											
_			792,38											
S	landard Dev		1,696,	312										
M	ean +3 Std Do	₹V	6,220,5	70 3.27 X	Mean	3,695,540								
M	ean +2 Std De	9V	4,523,7			2,836,638								
	ean -2 Std De		-2,263			_,000,000								
	ean -3 Std De		-3,960,											
.•,		•	J,500,											
No		Value	No	. Date	Value									
1	9/17/2002	1,300,000	33	11/18/2003	33,500									
2	9/19/2002	395,000	34	12/9/2003	2,050,000									
3	9/20/2002	455,000	35	12/22/2003	185,000									
4	10/4/2002	2,950,000	36	1/4/2004	325,000									
5	10/6/2002	3,050,000		1/17/2004	460,000				•	•				
6 7	10/25/2002		38	2/2/2004	540,000									
8	11/5/2002 12/18/2002	265,000	39	3/4/2004	340,000									
9	2/14/2003	225,000 260,000	40	3/25/2004	170,000									
10	3/12/2003	98,000	41 42	3/26/2004	7,500,000									
11	3/18/2003	867,500	43	4/24/2004 4/30/2004	535,000									
12	3/20/2003	27,000	44	5/12/2004	1,497,500 3,550,000									
13	3/28/2003	3,400,000		5/13/2004	5,200,000									
14	4/4/2003	827,500	46	5/19/2004	255,000									
15	4/20/2003	130,000	47	5/25/2004	410,000									
18	4/24/2003	230,000	48	5/26/2004	2,800,000									
17	4/25/2003	370,000	49	5/27/2004	3,000,000									
18	4/28/2003	250,000	50	5/30/2004	480,000									
19	5/4/2003	445,000	51	6/9/2004	580,000									
20	5/8/2003	510,000	52	6/15/2004	440,000									
21	5/10/2003	185,000	53	6/16/2004	4,150,000							•		
22 23	5/30/2003	2,500,000	54	7/6/2004	390,000									
24	6/10/2003 6/12/2003	220,000	55	7/30/2004	330,000									
25	6/26/2003	440,000 200,000	56 57	8/4/2004	1,800,000									
28	7/18/2003	325,000	57 58	8/23/2004	1,700,000									
27	7/28/2003	420,000	58 59	8/24/2004	2,100,000									
28	9/1/2003	475,000	60	8/25/2004 9/16/2004	490,000									
29	9/26/2003	590,000	61	10/12/2004	315,000									
30	10/9/2003	2,200,000	62	10/12/2004	84,000									
31	11/1/2003	11,000,000		10/18/2004	2,000,000									
32	11/17/2003	33,000	64	10/26/2004	90,000									
		,	<b>-</b>	WZUZUW	2,850,000									

Na	0-4-	
65	. Date 11/1/2004	Value
66	11/11/2004	3,750,000
67		340,000
68	11/24/2004	210,000
69	12/6/2004	200,000
70	1/2/2005	210,000
71	1/4/2005	53,000
	1/5/2005	16,500
72 73	1/12/2005	52,500
	2/7/2005	190,000
74	2/13/2005	80,000
75	3/22/2005	7,000
76	6/8/2005	3,900,000
77	6/13/2005	535,000
78	6/25/2005	3,100,000
79	7/11/2005	19,000
80	7/15/2005	395,000
81	7/18/2005	2,100,000
82	8/15/2005	5,900,000
83	8/25/2005	560,000
84	8/26/2005	590,000
85	8/29/2005	2,200,000
86	9/14/2005	900,000
87	9/15/2005	1,900,000
88	9/19/2005	385,000
89	9/25/2005	360,000
90	9/28/2005	580,000
91	10/20/2005	380,000
92	10/31/2005	460,000
93	11/14/2005	700,000
94	11/28/2005	43,000
95	1/10/2006	170,000
96	1/28/2006	435,000
97	2/15/2006	230,000
98	3/8/2006	280,000
89	3/9/2006	360,000
100	4/2/2006	160,000
101	4/6/2006	000,000
102	5/10/2006	405,000
103	5/24/2006	3,000,000
104	6/2/2006	325,000

### WOOD RIVER, ILLINIOS CSO LONG TERM CONTROL PLAN

# Appendix E Data Analysis for CSO Discharge Characterization

### TSS BOD Loading per CSO Event

Date	TSS (mg/L)	BOD mg/L	CSO Release (MG)	TSS Loading Per CSO Event (lbs)	BOD Loading Per CSO Event (lbs)
7/26/2002	178	58	6	5942	1936
8/11/2002	93	27	4	3105	901
8/16/2002	236	96	4	7879	3205
8/18/2002	30	16	4	1002	534
8/19/2002	94	13	7	3138	434
8/23/2002	128	69	4	4273	2303
9/17/2002	422	62	5	14088	2070
9/19/2002	140	34	4	4674	1135
9/20/2002	50	54	0	1669	1803
10/4/2002	149	84	1	4974	2804
10/6/2002	135	106	1	4507	3539
10/25/2002	77	52	2	2571	1736
11/5/2002	347	132	2	11584	4407
12/18/2002	236	41	1	7879	1369
2/14/2003	234	119	4	7812	3973
3/13/2003	54	44	1	1803	1469
3/19/2003	166	72	3	5542	2404
3/20/2003	117	26	1	3906	868
3/28/2003	538	466	6	17960	15557
4/4/2003	375	107	3	12519	3572
4/20/2003	88	19	3	2938	634
4/24/2003	53	48	3 4	1769	1602
4/25/2003	64	58	6	2137	
		158	3		1936
4/28/2003	612			20431	5275
5/4/2003	140	51	5	4674	1703
5/8/2003	304	5	5	10149	167
5/10/2003	126	5	10	4206	167
5/30/2003	488	239	1	16291	7979
6/26/2003	57	8	43	1903	267
7/18/2003	254	37	4	8479	1235
7/28/2003	418	209	1	13954	6977
9/1/2003	40	18	15	1335	601
9/26/2003	255	93	4	8513	3105
10/9/2003	219	123	4	7311	4106
11/1/2003	112	96	2	3739	3205
11/17/2003	62	15	29	2070	501
11/18/2003	57	17	7	1903	568
12/9/2003	790	563	1	26373	18795
12/22/2003	38	26	6	1269	868
1/4/2004	55	25	14	183 <del>6</del>	835
1/17/2004	54	48	2	1803	1602
3/4/2004	124	163	9	4140	5442
3/25/2004	118	32	3	3939	1068
3/26/2004	249	92	5	8313	3071
4/24/2004	265	143	6	8847	4774
4/30/2004	275	146	14	9181	4874
5/12/2004	349	158	1	11651	5275
5/13/2004	231	172	17	7712	5742
5/19/2004	30	16	4	1002	534
5/25/2004	23	17	7	768	568
5/26/2004	286	134	5	9548	4473
5/27/2004	60	18	17	2003	601
5/30/2004	105	24	7	3505	801
6/9/2004	48	29	3	1602	
6/15/2004	101	62	2	3372	968
6/16/2004	69	28	2 14	2303	2070
7/6/2004	103	20 5			935
7/30/2004			14	3439	167
	48	14	11	1602	467
8/4/2004	173	79	4	5775	2637
8/23/2004	197	66	. 6	6577	2203
8/24/2004	154	42	4	5141	1402
8/25/2004	67	66	7	2237	2203
10/12/2004	206	114	4	6877	3806
10/14/2004	140	108	3	4674	3605
10/18/2004	46	24	20	1536	801
10/26/2004	218	189	5	7278	6310
12/6/2004	268	66	24	8947	2203

### WOOD RIVER, ILLINIOS CSO LONG TERM CONTROL PLAN

### Appendix E Data Analysis for CSO Discharge Characterization

### TSS BOD Loading per CSO Event

Date	TSS (mg/L)	BOD mg/L	CSO Release (MG)	TSS Loading Per CSO Event (lbs)	BOD Loading Per CSO Event (lbs)
1/2/2005	43	29	13	1435	968
1/4/2005	98	14	30	3272	467
1/5/2005	8	6	3	267	200
1/12/2005	104	34	21	3472	1135
2/7/2004	256	44	4	8546	1469
2/13/2005	38	16	9	1269	534
3/22/2005	80	32	32	2671	1068
6/8/2005	74	339	3	2470	11317
6/13/2005	232	28	9	7745	935
6/25/2005	110	68	10	3672	2270
7/11/2005	58	31	7	1936	1035
7/15/2005	528	196	10	17627	6543
7/18/2005	82	35	9	2737	1168
8/15/2005	377	212	50	12586	7077
8/25/2005	488	148	9	16291	4941
8/26/2005	322	78	4	10750	2604
8/29/2005	141	52	8	4707	1736
9/14/2005	42	26	2	1402	868
9/15/2005	111	48	5	3706	1602
9/19/2005	108	20	10	3605	668
9/25/2005	20	12	10	668	401
9/28/2005	291	129	4	9715	4306
10/20/2005	210	123	2	7011	4106
10/31/2005	172	126	17	5742	4206
11/14/2005	229	153	5	7645	5108
11/27/2005	38	71	20	1269	2370

Average TSS Loading per CSO Event (lbs) 5850 Average BOD Loading per CSO Event (lbs) 2734

#### WOOD RI LLINIOS CSO LONG TERM CONTROL PLAN

### Appendix E Data Analysis for CSO Discharge Characterization

Event Date	Event	Estimated Rainfall (in)	in/hr	Estimated Duration of CSO Discharge (hr)	Estimated Amount Discharged (mg)
	Duration (hr)				
1/29/2002	21	2.2	0.10	4.5	4
2/19/2002	21.5	0.7	0.03	2	4
3/2/2002	5	0,45	0.09	9	12
3/15/2002	4	0.55	0.14	2	3
3/28/2002	1	0.05	0.05	1	1
4/7/2002	17.5	8.0	0.05	1	2
4/19/2002	6	1.4	0.23	4	10
4/21/2002	1	0.15	0.15	1	1
4/27/2002	6.5	1.1	0.17	4.2	10
5/6/2002	8,5	0.65	0.08	2.5	18
5/7/2002	6.5	2.85	0.44	3.5	32
5/12/2002	16.5	4.4	0.27	16	82
5/16/2002	3.75	0.4	0.11	2.25	16
5/17/2002	8,5	0.8	0.09	5	35
6/5/2002	3	0,4	0.13	1.25	4
6/10/2002	3	0.9	0.30	3	6
6/11/2002	0.75	1.75	2.33	2,25	12
6/25/2002	2	0.3	0.15	1.25	5
7/26/2002	2.25	0.33	0.15	2.25	6
8/11/2002	5	2.05	0.41	2.5	4
8/16/2002	1	0.5	0.50	1	4
8/18/2002	3.5	0.75	0.21	4	4
8/19/2002	1.5	1.25	0.83	1	7
8/23/2002	2	0.35	0,18	1	4
9/17/2002	5.5	0,6	0.11	2,75	5
9/19/2002	2,6	1.4	0.54	4	4
9/20/2002	7	0.4	0.06	1.75	0
10/4/2002	4.25	0.25	0.06	1,5	1
10/6/2002	3.5	0.35	0.10	2	1
10/25/2002	6.5	0,8	0.12	3	2
11/5/2002	3	0.45	0.15	2	2
12/18/2002	13.5	1.1	80,0	1.5	1

### WOOD RI\ .LINIOS CSO LONG TERM CONTROL PLAN

### Appendix E Data Analysis for CSO Discharge Characterization

Event Date	Event Duration (hr)	Estimated Rainfall (in)	in/hr	Estimated Duration of CSO Discharge (hr)	Estimated Amount Discharged (mg)
2/14/2003	6	0.35	0.06	2.5	4
2/18/2003	0.5		0.00	1	1
3/13/2003	2	0.6	0,30	1.25	1
3/19/2003	3.75	0.45	0.12	2,75	3
3/20/2003	0.1	0.1	1,00	0.9	1
3/28/2003	7	0.3	0.04	3	6
4/4/2003	1	0.35	0.35	2	3
4/20/2003	2.5	0.75	0,30	2.5	.3
4/24/2003	6	0.7	0.12	4	4
4/25/2003	4	0.6	0.15	4	6
4/28/2003	1.75	0.3	0.17	2.25	3
5/4/2003	8	1.2	0.15	3.5	5
5/8/2003	3	0.3	0.10	2.5	5
5/10/2003	3	1.15	0,38	2.5	10
5/30/2003	2	0.45	0.23	1	1
6/10/2003	2.5	0.65	0.26	3	
6/12/2003	2.5	1.45	0.58	2	
6/26/2003	8	3.45	0.43	7	43
7/18/2003	5.5	1.25	0.23	2	4
7/28/2003	1.5	0,38	0,25	1	1
9/1/2003	7.5	1,85	0,25	5	15
9/26/2003	3	0.85	0.28	1.5	4
10/9/2003	2.5	0.65	0,26	3	4
11/1/2003	7	0.5	0.07	2	2
11/17/2003	6.5	4	0.62	4	29
11/18/2003	0.5	0.05	0.10	2.5	7
12/9/2003	0.5	0.15	0.30	1	1
12/22/2003	11	0.95	0.09	6	6

### WOOD RI LINIOS CSO LONG TERM CONTROL PLAN

# Appendix E Data Analysis for CSO Discharge Characterization

Event Date	Event Duration (hr)	Estimated Rainfall (in)	ln/hr	Estimated Duration of CSO Discharge (hr)	Estimated Amount Discharged (mg)
1/4/2004	13.5	2.55	0.19	4.25	14
1/17/2004	20	0.7	0.04	1	2
2/2/2004	6	0.7	0.12	2.5	
3/4/2004	7	1.55	0.22	5	9
3/25/2004	4	0,35	0.09	2.5	3
3/26/2004	4	1.25	0.31	3	5
4/24/2004	10.5	1.2	0.11	5	6
4/30/2004	1.5	1.6	1.07	2	14
5/12/2004	2		0.00	1	1
5/13/2004	21	3.2	0.15	20	17
5/19/2004	5	0.85	0.17	3,5	4
5/25/2004	6	0.9	0.15	4.25	7
5/26/2004	6	1.9	0.32	4	5
5/27/2004	4.5	0.75	0.17	6	17
5/30/2004	3	0.75	0.25	3	7
6/9/2004	6	0.35	0.06	2.5	3
6/15/2004	0.5	0.5	1.00	1.5	2
6/16/2004	6	3.3	0.55	5	14
7/6/2004	8.5	1.1	0.13	4	14
7/30/2004	8.5	2.7	0,32	4	11
8/4/2004	2	0.65	0.33	2	4
8/23/2004	1.5	0.45	0,30	2	6
8/24/2004	3.25	0,5	0,15	1.5	4
8/25/2004	2.5	1.25	0.50	2.5	7
9/15/2004	4	0.7	0.18	2.5	89
10/12/2004	3,5	0.4	0.11	1.75	4
10/14/2004	16	0.65	0.04	6	3
10/18/2004	16	1.25	80.0	7.5	20
10/26/2004	3,25	0.6	0.18	2	5
12/6/2004	12	1.75	0.15	5	24

### WOOD R. LLINIOS CSO LONG TERM CONTROL PLAN

### Appendix E Data Analysis for CSO Discharge Characterization

Event Date	Event Duration (hr)	Estimated Rainfall (in)	in/hr	Estimated Duration of CSO Discharge (hr)	Estimated Amount Discharged (mg)
1/2/2005	13	2	0.15	6.5	13
1/4/2005	24	2.65	0.11	16	30
1/5/2005	2.5	1	0.40	2,5	3
1/12/2005	13.5	2.85	0.21	8	21
2/7/2004	3	0.35	0.12	2	4
2/13/2005	8,5	0.7	0.08	4	9
3/22/2005	8.25	1.5	0.18	7.75	32
6/8/2005	1.5	0.35	0.23	1.5	3
6/13/2005	2.5	1.2	0.48	3	9
6/25/2005	1	0.9	0.90	2.5	10
7/11/2005	17	1.15	0.07	12	7
15-Jul	2	1	0.50	2	10
7/18/2005	1.5	0,6	0.40	2	9
8/15/2005	12	2,25	0.19	8	50
8/25/2005	1.5	1	0.67	2	9
8/26/2005	1.75	0.45	0,26	1,5	4
8/29/2005	1.5	0.2	0.13	1.5	8
9/14/2005	2.5	0.55	0,22	1.75	2
9/15/2005	5	0.7	0.14	4	5
9/19/2005	6	2	0,33	3,5	10
9/25/2005	14	1.35	0.10	3	10
9/28/2005	2.5	0.8	0.32	2	4
10/20/2005	4.5	0.4	0.09	<u>-</u>	2
10/31/2005	12.5	1.2	0.10	9	17
11/14/2005	11.5	1.05	0.09	8	5
11/27/2005	7	1.55	0.22	5.5	20
	· · · · · · · · · · · · · · · · · · ·				
1/10/2006	12	0.65		1.5	
1/2/8/06	13	0,85		4,5	
2/16/2006	2	0,45		1.5	
3/8/2006	7	0,85		5	
3/9/2006	7	0.4		2.5	
4/2/2006	1.5	0.8		1.5	
4/6/2006	6.5	0.4		3	
5/10/2006	14	0.75		2.5	
5/24/2006	1.5	0.5		2	
6/1/2006	3	1.3		2	
6/10/2006	4.5	1.05		2.25	
6/22/2006	3,5	0.5		1	
7/13/2006	4	1,2		4	
7/19/2006	1	0.85		16	
7/21/2006	0.75	0.6		1	
8/10/2006	5.5	1.15		4	
8/18/2006	2	0.75		2.5	
8/26/2006	2.5	0.45		2.5	
9/11/2006	4,5	0.5		2.5	
9/17/2006	6	1.35		3	
10/16/2006	14	2.1		8	
10/27/2006	9,5	0,9		3.5	
11/15/2006	15	1.25		5.5	
11/30/2006	32	3.45		9	

### WOOD RIVER, ILLINIOS CSO LONG LERM CONTROL PLAN

### Appendix E Data Analysis for CSO Discharge Characterization

### CSO Discharge Characteristics

	Average 5-day BOD (mg/L)	Average TSS (mg/L)	Maximum Fecal Coliform (#/100 mL)	Total Flow (MG)	Estimated BOD Loading	Estimated TSS Loading
2002 July	58	178		6	2902	8907
2002 August	44	116	_	21	7706	20316
2002 September	50	204	1300000	8.8	3670	14972
2002 October	81	120	3050000	3.3	2229	3303
2002 November	132	347	265000	1.5	1651	4341
2002 December	41	236	225000	1.15	393	2263
2003 January	-		_	0	0	0
2003 February	119	234	260000	4.25	4218	8294
2003 March	152	219	340000	10	12677	18265
2003 April	78	238	827500	18	11709	35729
2003 May	75	265	2500000	21	13136	46412
2003 June	8	93	440000	52,5	3503	40720
2003 July	123	336	420000	5	5129	14011
2003 August		_		0	O O	0
2003 September	56	148	590000	18.5	8640	22835
2003 October	123	219	2200000	4	4103	7306
2003 November	43	77	11000000	37.5	13448	24082
2003 December	295	414	2050000	6,5	15992	22443
2004 January	37	55	460000	15.75	4860	7225
2004 February	74	176	540000	3,5	2160	5137
2004 March	96	164	7500000	16	12810	21884
2004 April	145	270	1497500	19.5	23581	43910
2004 May	77	155	5200000	56,5	36283	73038
2004 June	40	73	4150000	18	6005	10959
2004 July	10	76	390000	25.2	2102	15973
2004 August	63	148	2100000	20	10508	24686
2004 September	42	89	315000	2.5	876	1856
2004 October	109	153	2850000	31.25	28408	39876
2004 November	<del>1</del> 1	45	200000	24	2202	9007
2004 December	21	63	210000	66.5	11647	34940
2005 January	30	147	190000	13	3253	15938
2005 February	32	60	7000	32	8540	21350
2005 March	_		_		_	
2005 April	145	362	3900000	21.5	26000	64910
2005 May	87	223	2100000	25.5	18502	47425
2005 June	123	<b>33</b> 2	5900000	69.75	71551	193129
2005 July	47	114	1900000	31	12151	29474
2005 August	125	191	460000	19	19808	30266
2005 September	112	134	700000	25	23352	27939
2005 October	125	191	460000	19	19808	30266
2005 November	112	134	700000	25	23352	27939
2005 December		_		-		

Year	Estimated Annual CSO Flow (MG)	Estimated Annual BOD Loading (1000 Lbs.)	Estimated Annual TSS Loading (1000 Lbs.)
2003	177	93	240
2004	299	141	288
2005	281	226	489
Average	252.2	153	339

Year	Maximum Fecal Coliform Count (#/100 mL)
2002*	3,050,000
2003	11,000,000
2004	7,500,000
2005	5,900,000
Average	N/A

Year	Average BOD in CSOs (mg/L)	Maximum BOD in CSOs (mg/L)	Average TSS in CSOs (mg/L)	Maximum TSS in CSOs (mg/L)
2002*	68	330	200	622
2003	107	563	224	790
2004	60	189	122	349
2005	94	339	191	528
Average	82		184	

### APPENDIX F

Illinois EPA
Subpart B: General Use
Water Quality Standards

# ILLINOIS ENVIRONMENTAL PROTECTION AGENCY SUBPART B: GENERAL USE WATER QUALITY STANDARDS

### Section 302.201 Scope and Applicability

Subpart B contains general use water quality standards which must be met in waters of the State for which there is no specific designation (Section 303.201).

### Section 302.202 Purpose

The General Use standards will protect the State's water for aquatic life (except as provided in Section 302.213), wildlife, agricultural use, secondary contact use and most industrial uses and ensure the aesthetic quality of the State's aquatic environment. Primary contact uses are protected for all General Use waters whose physical configuration permits such use.

(Source: Amended at 21 Ill. Reg. 370, effective December 23, 1996)

### Section 302.203 Offensive Conditions

Waters of the State shall be free from sludge or bottom deposits, floating debris, visible oil, odor, plant or algal growth, color or turbidity of other than natural origin. The allowed mixing provisions of Section 302.102 shall not be used to comply with the provisions of this Section.

(Source: Amended at 14 III. Reg. 2899, effective February 13, 1990)

### Section 302.204 pH

pH(STORET number 00400) shall be within the range of 6.5 to 9.0 except for natural causes.

### Section 302.205 Phosphorus

Phosphorus (STORET number 00665): After December 31, 1983, Phosphorus as P shall not exceed 0.05 mg/l in any reservoir or lake with a surface area of 8.1 hectares (20 acres) or more, or in any stream at the point where it enters any such reservoir or lake. For the purposes of this Section, the term "reservoir or lake" shall not include low level pools constructed in free flowing streams or any body of water which is an integral part of an operation which includes the application of sludge on land. Point source discharges which comply with Section 304.123 shall be in compliance with this Section for purposes of application of Section 304.105.

(Source: Amended at 3 Ill. Reg., no. 20, page 95, effective May 17, 1979.)

### Section 302.206 Dissolved Oxygen

Dissolved oxygen (STORET number 00300) shall not be less than 6.0 mg/l during at least 16 hours of any 24 hour period, nor less than 5.0 mg/l at any time.

### Section 302.207 Radioactivity

- a) Gross beta (STORET number 03501) concentration shall not exceed 100 picocuries per liter (pCi/L).
- b) Strontium 90 (STORET number 13501) concentration must not exceed 2 picocuries per liter (pCi/L).
- c) The annual average radium 226 and 228 (STORET number 11503) combined concentration must not exceed 3.75 picocuries per liter (pCi/L).

(Source: Amended at 30 Ill. Reg. 4919, effective March 1, 2006)

### Section 302.208 Numeric Standards for Chemical Constituents

- a) The acute standard (AS) for the chemical constituents listed in subsection (e) shall not be exceeded at any time except as provided in subsection (d).
- b) The chronic standard (CS) for the chemical constituents listed in subsection (e) shall not be exceeded by the arithmetic average of at least four consecutive samples collected over any period of at least four days, except as provided in subsection (d). The samples used to demonstrate attainment or lack of attainment with a CS must be collected in a manner that assures an average representative of the sampling period. For the metals that have water quality based standards dependent upon hardness, the chronic water quality standard will be calculated according to subsection (e) using the hardness of the water body at the time the metals sample was collected. To calculate attainment status of chronic metals standards, the concentration of the metal in each sample is divided by the calculated water quality standard for the sample to determine a quotient. The water quality standard is attained if the mean of the sample quotients is less than or equal to one for the duration of the averaging period.
- c) The human health standard (HHS) for the chemical constituents listed in subsection (f) shall not be exceeded when the stream flow is at or above the harmonic mean flow pursuant to Section 302.658 nor shall an annual average, based on at least eight samples, collected in a manner representative of the sampling period, exceed the HHS except as provided in subsection (d).
- d) In waters where mixing is allowed pursuant to Section 302.102, the following apply:
  - 1) The AS shall not be exceeded in any waters except for those waters for which the Agency has approved a zone of initial dilutions (ZID) pursuant to Section 302.102.
  - 2) The CS shall not be exceeded outside of waters in which mixing is allowed pursuant to Section 302.102.
  - 3) The HHS shall not be exceeded outside of waters in which mixing is allowed pursuant to Section 302.102.

#### Numeric Water Quality Standards for the Protection of Aquatic Organisms e)

Constituent	STORET Number	AS (μg/L)	CS (μg/L)
Arsenic (trivalent, dissolved)	22680	360 X 1.0*=360	190 X 1.0*=190
Cadmium (dissolved)	01025	exp[A+Bln(H)] X {1.138672- [(lnH)(0.041838)]}*, where A=-2.918 and B=1.128	exp[A+Bln(H)] X {1.101672- [(lnH)(0.041838)]}*, where A=-3.490 and B=0.7852
Chromium (hexavalent, total)	01032	16	11
Chromium (trivalent, dissolved)	80357	exp[A+Bln(H)] X 0.316*,	exp[A+Bln(H)] X 0.860*, where A=1.561 and B=0.8190
alsborroay		where A=3.688 and B=0.8190	WHO10 21 1.301 MIG D 0.0130
Copper (dissolved)	01040	exp[A+Bln(H)] X 0.960*, where A=-1.464 and B=0.9422	exp[A+Bln(H)] X 0.960*. where A=-1.465 and B=0.8545
Cyanide	00718	22	5.2
Lead (dissolved)	01049	exp[A+Bln(H)] X {1.46203- [(lnH)(0.145712)]}*, where A=-1.301 and B=1.273	exp[A+Bln(H)] X {1.46203- [(lnH)(0.145712)]}*, where A=-2.863 and B=1.273
Mercury (dissolved)	71890	2.6 X 0.85*=2.2	1.3 X 0.85*=1.1
Nickel (dissolved)	01065	exp[A+Bln(H)] X 0.998*,	exp[A+Bln(H)] X 0.997*,
		where A=0.5173 and B=0.8460	where A=-2.286 and B=0.8460
TRC	500600	19	11
Zinc (dissolved)	01090	exp[A+Bln(H)] X 0.978*,	Exp[A+Bln(H)] X 0.986*,
		where A=0.9035 and	where A=-0.8165 and
		B=0.8473	B=0.8473
Benzene	78124	4200	860
Ethylbenzene	78113	150	14
Toluene	78131	2000	600
Xylene(s)	81551	920	360

where:  $\mu g/L = \text{microgram per liter}$ ,  $\exp[x] = \text{base natural logarithms raised to the x-power}$ ,  $\ln(H) = \text{natural logarithm of Hardness (STORET 00900)}$ , and \* = conversion factor multiplier for dissolved metals

### f) Numeric Water Quality Standard for the Protection of Human Health

Constituent	STORET Number	(μg/L)	
Mercury	71900	0.012	
Benzene	78124	310	

where:  $\mu g/L = micrograms per liter$ 

g) Concentrations of the following chemical constituents shall not be exceeded except in waters for which mixing is allowed pursuant to Section 302.102.

Constituent	Unit	STORET Number	Standard	
Barium (total)	mg/L	01007	5.0	
Boron (total)	mg/L	01022	1.0	
Chloride (total)	mg/L	00940	500	
Fluoride	mg/L	00951	1.4	
Iron (dissolved)	mg/L	01046	1.0	
Manganese (total)	mg/L	01055	1.0	
Phenols	mg/L	32730	0.1	
Selenium (total)	mg/L	01147	1.0	
Silver (total)	μg/L	01077	5.0	
Sulfate	mg/L	00945	500	
Total Dissolved Solids	mg/L	70300	1000	

where: mg/L = milligram per liter and  $\mu g/L = microgram$  per liter

(Source: Amended at 27 Ill. Reg. 166, effective December 20, 2002)

### Section 302.209 Fecal Coliform

a) During the months May through October, based on a minimum of five samples taken over not more than a 30 day period, fecal coliform (STORET number 31616) shall not exceed a geometric mean of 200 per 100 ml, nor shall more than 10% of the samples during any 30 day period exceed 400 per 100 ml in protected waters. Protected waters are defined as waters which, due to natural characteristics, aesthetic value or environmental significance are deserving of protection from pathogenic organisms.

Protected waters will meet one or both of the following conditions:

- 1) presently support or have the physical characteristics to support primary contact;
- 2) flow through or adjacent to parks or residential areas.
- b) Waters unsuited to support primary contact uses because of physical, hydrologic or geographic configuration and are located in areas unlikely to be frequented by the public on a routine basis as determined by the Agency at 35 Ill. Adm. Code 309.Subpart A, are exempt from this standard.
- c) The Agency shall apply this rule pursuant to 35 III. Adm. Code 304.121.

(Source: Amended at 12 Ill. Reg. 12082, effective July 11, 1988)

### Section 302.210 Other Toxic Substances

Waters of the State shall be free from any substances or combination of substances in concentrations toxic or harmful to human health, or to animal, plant or aquatic life. Individual chemical substances or parameters for which numeric standards are specified in this Subpart are not subject to this Section.

- a) Any substance or combination of substances shall be deemed to be toxic or harmful to aquatic life if present in concentrations that exceed the following:
  - 1) An Acute Aquatic Toxicity Criterion (AATC) validly derived and correctly applied pursuant to procedures set forth in Sections 302.612 through 302.618 or in Section 302.621; or
  - 2) A Chronic Aquatic Toxicity Criterion (CATC) validly derived and correctly applied pursuant to procedures set forth in Sections 302.627 or 302.630.
- b) Any substance or combination of substances shall be deemed to be toxic or harmful to wild or domestic animal life if present in concentrations that exceed any Wild and Domestic Animal Protection Criterion (WDAPC) validly derived and correctly applied pursuant to Section 302.633.
- c) Any substance or combination of substances shall be deemed to be toxic or harmful to human health if present in concentrations that exceed criteria, validly derived and correctly applied, based on either of the following:
  - 1) Disease or functional impairment due to a physiological mechanism for which there is a threshold dose below which no damage occurs calculated pursuant to Sections 302.642 through 302.648 (Human Threshold Criterion); or
  - Disease or functional impairment due to a physiological mechanism for which any dose may cause some risk of damage calculated pursuant to Sections 302.651 through 302.658 (Human Nonthreshold Criterion).
- d) The most stringent criterion of subsections (a), (b), and (c) shall apply at all points outside of any waters within which, mixing is allowed pursuant to Section 302.102. In addition, the AATC derived pursuant to subsection (a)(1) shall apply in all waters except that it shall not apply within a ZID that is prescribed in accordance with Section 302.102.

- e) The procedures of Subpart F set forth minimum data requirements, appropriate test protocols and data assessment methods for establishing criteria pursuant to subsections (a), (b), and (c). No other procedures may be used to establish such criteria unless approved by the Board in a rulemaking or adjusted standards proceeding pursuant to Title VII of the Act. The validity and applicability of the Subpart F procedures may not be challenged in any proceeding brought pursuant to Titles VIII or X of the Act, although the validity and correctness of application of the numeric criteria derived pursuant to Subpart F may be challenged in such proceedings pursuant to subsection (f).
- f) A permittee may challenge the validity and correctness of application of a criterion derived by the Agency pursuant to this Section only at the time such criterion is first applied in an NPDES permit pursuant to 35 III. Adm. Code 309.152 or in an action pursuant to Title VIII of the Act for violation of the toxicity water quality standard. Failure of a person to challenge the validity of a criterion at the time of its first application shall constitute a waiver of such challenge in any subsequent proceeding involving application of the criterion to that person.
  - Consistent with subsection (f)(1), if a criterion is included as, or is used to derive, a condition of an NPDES discharge permit, a permittee may challenge the criterion in a permit appeal pursuant to Section 40 of the Act and 35 Ill. Adm. Code 309.181. In any such action, the Agency shall include in the record all information upon which it has relied in developing and applying the criterion, whether such information was developed by the Agency or submitted by the Petitioner. THE BURDEN OF PROOF SHALL BE ON THE PETITIONER TO DEMONSTRATE THAT THE CRITERION-BASED CONDITION IS NOT NECESSARY TO ACCOMPLISH THE PURPOSES OF SUBSECTION (a) (Section 40(a)(1) of the Act), but there is no presumption in favor of the general validity and correctness of the application of the criterion as reflected in the challenged condition.
  - Consistent with subsection (f)(1), in an action where alleged violation of the toxicity water quality standard is based on alleged excursion of a criterion, the person bringing such action shall have the burdens of going forward with proof and of persuasion regarding the general validity and correctness of application of the criterion.
- g) Subsections (a) through (e) do not apply to USEPA registered pesticides approved for aquatic application and applied pursuant to the following conditions:
  - 1) Application shall be made in strict accordance with label directions;
  - 2) Applicator shall be properly certified under the provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. 135 et seq. (1972));
  - Applications of aquatic pesticides must be in accordance with the laws, regulations and guidelines of all state and federal agencies authorized by law to regulate, use or supervise pesticide applications, among which is included the Department of Energy and Natural Resources pursuant to Section 3 of "AN ACT in relation to natural resources, research, data collection and environmental studies", Ill. Rev. Stat. 1987 ch. 96 1/2, par. 7403.

4) No aquatic pesticide shall be applied to waters affecting public or food processing water supplies unless a permit to apply the pesticide has been obtained from the Agency. All permits shall be issued so as not to cause a violation of the Act or of any of the Board's rules or regulations. To aid applicators in determining their responsibilities under this subsection, a list of waters affecting public water supplies will be published and maintained by the Agency's Division of Public Water Supplies.

(Source: Amended at 14 III. Reg. 2899, effective February 13, 1990)

### Section 302.211 Temperature

- a) Temperature has STORET number (F°) 00011 and (C°) 00010.
- b) There shall be no abnormal temperature changes that may adversely affect aquatic life unless caused by natural conditions.
- c) The normal daily and seasonal temperature fluctuations which existed before the addition of heat due to other than natural causes shall be maintained.
- d) The maximum temperature rise above natural temperatures shall not exceed 2.8° C (5° F).
- e) In addition, the water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 1.7° C (3° F).

	° C	° F		° C	° F
JAN.	16	60	JUL.	32	90
FEB.	16	60	AUG.	32	90
MAR.	16	60	SEPT.	32	90
APR.	32	90	OCT.	32	90
MAY	32	90	NOV.	32	90
JUNE	32	90	DEC.	16	60

- f) The owner or operator of a source of heated effluent which discharges 150 megawatts (0.5 billion British thermal units per hour) or more shall demonstrate in a hearing before this Pollution Control Board (Board) not less than 5 nor more than 6 years after the effective date of these regulations or, in the case of new sources, after the commencement of operation, that discharges from that source have not caused and cannot be reasonably expected to cause significant ecological damage to the receiving waters. If such proof is not made to the satisfaction of the Board appropriate corrective measures shall be ordered to be taken within a reasonable time as determined by the Board.
- g) Permits for heated effluent discharges, whether issued by the Board or the Illinois Environmental Protection Agency (Agency), shall be subject to revision in the event that reasonable future development creates a need for reallocation of the assimilative capacity of the receiving stream as defined in the regulation above.

- h) The owner or operator of a source of heated effluent shall maintain such records and conduct such studies of the effluents from such sources and of their effects as may be required by the Agency or in any permit granted under the Illinois Environmental Protection Act (Act).
- i) Appropriate corrective measures will be required if, upon complaint filed in accordance with Board rules, it is found at any time that any heated effluent causes significant ecological damage to the receiving stream.
- j) All effluents to an artificial cooling lake must comply with the applicable provisions of the thermal water quality standards as set forth in this Section and 35 III. Adm. Code 303, except when all of the following requirements are met:
  - 1) All discharges from the artificial cooling lake to other waters of the State comply with the applicable provisions of subsections (b) through (e).
  - 2) The heated effluent discharged to the artificial cooling lake complies with all other applicable provisions of this Chapter, except subsections (b) through (e).
  - 3) At an adjudicative hearing the discharger shall satisfactorily demonstrate to the Board that the artificial cooling lake receiving the heated effluent will be environmentally acceptable, and within the intent of the Act, including, but not limited to:
    - A) provision of conditions capable of supporting shellfish, fish and wildlife, and recreational uses consistent with good management practices, and
    - B) control of the thermal component of the discharger's effluent by a technologically feasible and economically reasonable method.
  - The required showing in subsection (j)(3) may take the form of an acceptable final environmental impact statement or pertinent provisions of environmental assessments used in the preparation of the final environmental impact statement, or may take the form of showing pursuant to Section 316(a) of the Clean Water Act (CWA) (33 U.S.C. 1251 et seq.), which addresses the requirements of subsection (j)(3).
  - 5) If an adequate showing as provided in subsection (j)(3) is found, the Board shall promulgate specific thermal standards to be applied to the discharge to that artificial cooling Lake.

(Source: Amended in R88-1 at 13 Ill. Reg. 5998, effective April 18, 1989)

### Section 302.212 Total Ammonia Nitrogen

- a) Total ammonia nitrogen (as N: STORET Number 00610) must in no case exceed 15 mg/L.
- b) The total ammonia nitrogen (as N: STORET Number 00610) acute, chronic, and subchronic standards are determined by the equations given in subsections (b)(1) and (b)(2) of this Section. Attainment of each standard must be determined by subsections (c) and (d) of this Section in mg/L.

1) The acute standard (AS) is calculated using the following equation:

$$AS = \frac{0.411}{1 + 10^{7.204 \text{-pH}}} + \frac{58.4}{1 + 10^{\text{pH-}7.204}}$$

- 2) The chronic standard (CS) is calculated using the following equations:
  - A) During the Early Life Stage Present period, as defined in subsection (e) of this Section:
    - i) When water temperature is less than or equal to 14.51°C:

$$CS = \left\{ \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right\} (2.85)$$

ii) When water temperature is above 14.51°C:

$$CS = \left\{ \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right\} \left( 1.45 * 10^{0.028*(25 - T)} \right)$$

Where T = Water Temperature, degrees Celsius

- B) During the Early Life Stage Absent period, as defined in subsection (e) of this Section:
  - i) When water temperature is less than or equal to 7°C:

$$CS = \left\{ \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right\} \left( 1.45 * 10^{0.504} \right)$$

ii) When water temperature is greater than 7°C:

$$CS = \left\{ \frac{0.0577}{1 + 10^{7.688 - pH}} + \frac{2.487}{1 + 10^{pH - 7.688}} \right\} \left( 1.45 * 10^{0.028(25 - T)} \right)$$

Where T = Water Temperature, degrees Celsius

- 3) The sub-chronic standard is equal to 2.5 times the chronic standard.
- c) Attainment of the Total Ammonia Nitrogen Water Quality Standards
  - 1) The acute standard of total ammonia nitrogen (in mg/L) must not be exceeded at any time except in those waters for which the Agency has approved a ZID pursuant to Section 302.102.

- 2) The 30-day average concentration of total ammonia nitrogen (in mg/L) must not exceed the chronic standard (CS) except in those waters in which mixing is allowed pursuant to Section 302.102 of this Part. Attainment of the chronic standard (CS) is evaluated pursuant to subsection (d) of this Section by averaging at least four samples collected at weekly intervals or at other sampling intervals that statistically represent a 30-day sampling period. The samples must be collected in a manner that assures a representative sampling period.
- 3) The 4-day average concentration of total ammonia nitrogen (in mg/L) must not exceed the sub-chronic standard except in those waters in which mixing is allowed pursuant to Section 302.102. Attainment of the sub-chronic standard is evaluated pursuant to subsection (d) of this Section by averaging daily sample results collected over a period of four consecutive days within the 30-day averaging period. The samples must be collected in a manner that assures a representative sampling period.
- d) The water quality standard for each water body must be calculated based on the temperature and pH of the water body measured at the time of each ammonia sample. The concentration of total ammonia in each sample must be divided by the calculated water quality standard for the sample to determine a quotient. The water quality standard is attained if the mean of the sample quotients is less than or equal to one for the duration of the averaging period.
- e) The Early Life Stage Present period occurs from March through October. In addition, during any other period when early life stages are present, and where the water quality standard does not provide adequate protection for these organisms, the water body must meet the Early Life Stage Present water quality standard. All other periods are subject to the Early Life Stage Absent period.

BOARD NOTE: Acute and chronic standard concentrations for total ammonia nitrogen (in mg/L) for different combinations of pH and temperature are shown in Appendix C.

(Source: Amended at 26 Ill. Reg. 16931, effective November 8, 2002.)

Section 302.213 Effluent Modified Waters (Ammonia) (Repealed)

(Source: Repealed at 26 Ill. Reg. 16931, effective November 8, 2002)

### APPENDIX G

American Water Company (AWC)
Alton, IL WTP
Raw Water Intake Sampling Data

	В	ACTERIOLO	DGICAL	
	PLANT		DIST SY	STEM
	MF/100mL MF/100mL		No.	#
DATE	RAW	EFF	SAMPLES	>1
1/1/2005				
1/2/2005				
1/3/2005	2800	0	5	0
1/4/2005	2200	0	5	0
1/5/2005	4400	0	5	0
1/6/2005	4200	0	5	0
1/7/2005	1200	0	5	0
1/8/2005				
1/9/2005				
1/10/2005	2400	0	5	1
1/11/2005	1100	0	5	0
1/12/2005	1500	0	8	0
1/13/2005	2500	0		
1/14/2005	8100	0	4	0
1/15/2005				
1/16/2005				
1/17/2005	700	0		
1/18/2005	1100	0	4	0
1/19/2005	700	0	5	0
1/20/2005	800	0	5	0
1/21/2005	1700	0	5	0
1/22/2005				
1/23/2005				
1/24/2005	800	0	5	0
1/25/2005	1000	0	5	0
1/26/2005	1300	0	5	0
1/27/2005	2400	0	5	0
1/28/2005	1500	0	5	0
1/29/2005				
1/30/2005				
1/31/2005	1200	0	5 .	0
2/1/2005				
2/2/2005				
2/3/2005				
2/4/2005				
2/5/2005				
2/6/2005				
2/7/2005				

2/8/2005					
2/9/2005					
2/10/2005					
2/11/2005					
2/12/2005					
2/13/2005		•			
2/14/2005					
2/15/2005					
2/16/2005					
2/17/2005					
2/18/2005					
2/19/2005					
2/20/2005					
2/21/2005					
2/22/2005					
2/23/2005					
2/24/2005					
2/25/2005					
2/26/2005					
2/27/2005					
2/28/2005					
3/1/2005					
3/2/2005					
3/3/2005					
3/4/2005					
3/5/2005					
3/6/2005					
3/7/2005					
3/8/2005					
3/9/2005					
3/10/2005					
3/11/2005					
3/12/2005					
3/13/2005		_	_	_	
3/14/2005	200	0	5	0	
3/15/2005	100	0	5	0	
3/16/2005	100	0	5	0	
3/17/2005	200	0	5	0	
3/18/2005	500	0	5	0	
3/19/2005					
3/20/2005		_	_		
3/21/2005	100	0	5	0	
3/22/2005	0	0			
3/23/2005	1200	0	5	0	

3/24/2005		
3/25/2005		
3/26/2005		
3/27/2005		
3/28/2005 100 0 5	0	
3/29/2005 200 0 5	Ö	
3/30/2005 400 0 5	Ō	
3/31/2005 100 0 5	Õ	
4/1/2005 300 0 5	Ō	
4/2/2005	•	
4/3/2005		
4/4/2005 300 0 5	0	
4/5/2005 400 0 5	Ö	
4/6/2005 800 0 5	0	
4/7/2005 300 0 5	Ö	
4/8/2005 300 0 5	Ö	
4/9/2005	_	
4/10/2005		
4/11/2005 0 0 5	0	
4/12/2005 100 0 5	0	
4/13/2005 0 0 5	0	
4/14/2005 500 0 4	0	
4/15/2005 900 0 5	0	
4/16/2005		
4/17/2005		
4/18/2005 200 0 5	0	
4/19/2005 100 0 5	0	
4/20/2005 200 0 5	0	
4/21/2005 100 0 5	0	
4/22/2005 3100 0 5	0	
4/23/2005		
4/24/2005		
4/25/2005 200 0 5	0	
4/26/2005 200 0 5	0	
4/27/2005 600 0 5	0	
4/28/2005 1400 0 5	0	
4/29/2005 900 0 5	0	
4/30/2005		
5/1/2005		
5/2/2005 100 0 5	0	
5/3/2005 100 0 5	0	
5/4/2005 400 0 5	0	
5/5/2005 200 0 5	0	
5/6/2005 600 0 5	0	

5/7/2005				
5/8/2005				
5/9/2005	400	0	5	0
5/10/2005	200	0	5	0
5/11/2005	100	0	5	0
5/12/2005	100	0	5	0
5/13/2005	109	0	5	0
5/14/2005				
5/15/2005				
5/16/2005	0	0	5	0
5/17/2005	200	0	5	0
5/18/2005	0	0	5	0
5/19/2005	100	0		
5/20/2005	100	0		
5/21/2005				
5/22/2005				
5/23/2005	100	0	5	0
5/24/2005	200	0	5	0
5/25/2005	15	0	5	0
5/26/2005	96	0	5	0
5/27/2005	600	0	5	0
5/28/2005				
5/29/2005				
5/30/2005				
5/31/2005	400	0	5	0
6/1/2005	<b>10</b> 0	0	5	0
6/2/2005	900	0	5	0
6/3/2005	300	0		
6/4/2005				
6/5/2005				
6/6/2005	700	0	5	0
6/7/2005	400	0	5	0
6/8/2005	300	0	5	0
6/9/2005	1500	0	5	0
6/10/2005	400	0	5	0
6/11/2005				
6/12/2005				
6/13/2005	100	0	5	0
6/14/2005	1200	0	5	0
6/15/2005	300	0	5	0
6/16/2005	600	0	5	0
6/17/2005	400	0	5	0
6/18/2005				
6/19/2005				

6/20/2005	600	0	5	0	
6/21/2005	200	0	5	0	
6/22/2005	200	0	5	0	
6/23/2005	300	0	5	0	
6/24/2005	1500	0	5	0	
6/25/2005					
6/26/2005					
6/27/2005			5	0	
6/28/2005			5	0	
6/29/2005	300	0	5	0	
6/30/2005	0	0	5	0	
7/1/2005	300	0	5	0	
7/2/2005					
7/3/2005					
7/4/2005					
7/5/2005	200	0			
7/6/2005	200	0	5	0	
7/7/2005	200	0	5	0	
7/8/2005	200	0	5	0	
7/9/2005					
7/10/2005					
7/11/2005	200	0	5	0	
7/12/2005	0	0	5	0	
7/13/2005	100	0	5	0	
7/14/2005	0	0	5	0	
7/15/2005	2100	0	5	0	
7/16/2005					
7/17/2005					
7/18/2005	0	0	5	0	
7/19/2005	200	0	5	0	
7/20/2005	0	0	5	0	
7/21/2005	100	0	5	0	
7/22/2005	600	0	5	0	
7/23/2005					
7/24/2005					
7/25/2005			5	0	
7/26/2005	0	0	5	0	
7/27/2005	0	0	5	0	
7/28/2005	0	0	5	0	
7/29/2005	300	0	5	0	
7/30/2005					
7/31/2005					
8/1/2005	0	0	5	0	
8/2/2005	100	0	4	0	

20 TH	8/3/2005	0	0	5	0
	8/4/2005	0	0	5	0
	8/5/2005	500	0	J	U
	8/6/2005	000	U		
	8/7/2005				
	8/8/2005			5	Λ
	8/9/2005			5	0
	8/10/2005	0	0	5 5	0
	8/11/2005	0	0	5	0
	8/12/2005	400	0	5 5	0
	8/13/2005	400	U	5	0
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PURITICATION PLANT REPORT
SUPERPULSATOR PLANT

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# PURIFICATION PLANT REPORT

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# PURIFICATION PLANT REPORT SUPERPULSATOR PLANT

ELINDISAMERICAN WATER COMPANY / ALTON DISTRICT PACILITY NO 119-5159

System Construction 114.72 24 73 6 22 82 2 Cadi \* Remov. Deck Vitaes Credit Credit 17.14.6 11.14. 릴 5 3.38 17.6 fred Cradit -Personal Credit Labagelier fodes 0.37 0.42 0.42 0.42 1.42 1.42 0.34 2 20 TEMP ¥ ä 00 BACTERIOLOGICAL PLANT DISTRESS SAMP ES 3 en es 富富 00 RAW - 388 8 E 8888 S 5 8 8 2300 13 335 33.20 33.20 33.20 33.20 33.20 33.40 13 9 240 Q.7R 7 1 0.60 0.40 1.60g 11 1.70 0.50 1.07 0.20
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mod January

#### SUPERPULSATOR PLANT

CLINOIS ANERICAN WATER COMPANY . A) TITLE ! \*AORTE NO TIMES TO

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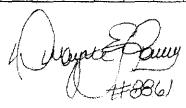
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	139		0 057	139		ļ <u>.</u>	150	7.72	7.37	7.72					0.34	1.08	0.55	23	9.25	1 52	0.30	3.50	<b>6</b> 500	Ģ	5	J	75	0.36	2 50	3 74	6 24	: O0	9.59	1109
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i i	56		0.048	126				7.95	7	6 10	ŀ		i		ù 39	1.07	676	1.10	0.10	1 50	0.30	3.40				!	78	1	2,50	3.32	5 /Z	200	7.92	9.92
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н	43	1 30	0 045	. 102	1	1	144	7 95	7.29	8,20					0.35	1.13	0 22	1.20	0.20	1.70	0.30	3,70	500	Q	5	C·	77	0.22	2.50	3.17	5 67	2 000	7.91	9 91
) ə	53	1.30	0.048	101	2	ļ	152	E 20	7.40	5.45	( :	,	ļ		0.32	7.07	0.22	1.18	0.20	150	0.30	3.60		ļ	1	{	76	047	2,50	. 280	5.30	2.00	7.34	9.34
10	41		0.053	90	ļ	<del> </del>	154	R 46		.B. 37	ļ		ļ	<del> </del>	0.35	1.09	0.21	1 14	0.20	1.40	0.40	3.60	500	0	ļ		76	(0.41)E	7.50	2_ft	5.29	200	7,33	9.33
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!4 !6	31	0.40	0.070	92	6	154		8.80	7.69	8.32	}	i i	i	1	0.23		0.28	1.16	0,20	1.20	0.40	3.50	300	n n	5 5	6	77	041	2.50	2.61	5 11	200		8.94 9.19
16	29 34	0.80	0.086		4	160	154	8.74	7.58	8 39	204	204	2	<del> ,-</del>	0.32	1.06	0.21	1.15	0.20	1.10	0.30	3,40	500		1 - 3	<u> </u>	77	0.35	2.50	2 89	5,25 5.39	2.00	7.19	9.46
15	29	0.60	0.062	78	1 ~	154	160	8 47	7 46	B 10		208	1 '	'	0.32	1.07	0.23	112	0 10	1.40	0.20	3,40	700	i i	"	á	77	0.20	2.50	2.56	5.16	2.00	7.06	9.06
18	28	0.60	0.057	79	}	1 "	1	8.40		8.05	1	1	ì	1	3 27	1 07		1 17	0.10	1.30	0.20	3.80	1	ľ	1 "	) ~	75	0.0	2 50	2 34	4.84	2.00	6.60	03.8
19	42	0.70	0.056		1	1	1		7.10	8 10		1	ĺ		0.28	1.09	0.22	119	0.20	130	0.30	1.60				İ	75	1	2,50	2 47	4 97	200	6.83	8.83
20	33	0.70	0,056	96	8	1893	160	8.57	7 4 <u>R</u>	e.33	208	2.32	2_	1. 3.	1 200	1.06	0.21	3.20	0.10	1.25	0,30	3.90		İ	<u></u>	0	77.6	1: 25	2.50	2 30	4.80	200	6.55	8.65
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23	38	0.70	0.060	110	12	154	156	8.39			203	200	2	1 .	0.29	3 06	\$	12	0 10	1.40	0.40	4.00	400	0	5	c	73	0.19	2.50	2 30	4.60	200	6,56	8.58
24	42	0.80			ł	150	150	9.39		8,20	200	200	1	į.	0.29	7.01	0.28	1 18	0.20	1.30	0.30	3.70	700	0	5	0	73	0.16	2.50	2 25	4.75	2.000	6.49	8 49
25	47	0.80	0.075		ļ		<b>_</b>	<u>8.47</u>	7 45	8,15	<del> </del>	ļ	ļ	ļ	19.22	1.01	G 24	1 17	0.20	1.40	0.30	3.90			Ļ	L	7.3	l,	2,50	2.47	4 92	2.00	6,79	8 79
25	40	0.60	0.077	87			1	8 46		9.07	1	1	] .	[ .	0 28	0.96		1 16		1.30	0.30	3.90	1.		1	ì	73		2 50	2.31	4 81	200	6 60	B.60
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28	33	0 50	,		2	150	[	8 26		8.19	210	210	3	1	0 43	1.13		1 13	0 2.0	1.30	0.30	3 90	200	} °	5	9	73	0 19	2.50	2.24	174	200	6.47	8.47
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30	29	0 60	0.065	85	'2	158	160	5 17	7 37	8 36	202	210	<u> </u>	<u> </u>	1037	1	0 20	1.20	0.50	1 30	0.30.	4 16	300	.,,	5	Li	71	031	2.50	2.15	4 63	500	8 30	8,30
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MAX	13%	2.30	3.507	154	12	IA <sub>U</sub>		S B i	5 24	11-07	310	220	1	<u> </u> -	<u> </u>	1.25	0.3%	1.45	<u>e 50</u>	7.75	2.11	130	32 <u>%</u> _	<u></u>			- 25-	0.52		3.14	6,24		e 1%,	11.04
MIN	25	0.40	0.045			150	5.01	125	7.94.	1.2	Aler.	30	- 2 .			1.02	<u>(* 15</u>	J-15	1 20°	232	. الم	1 8.5	100_		<del> </del> -		.5	-0.38			4.63		6 30	8.30
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#### SUPERPULSATOR PLANT

ILLINOIS-AMERICAN WATER COMPANY (ALTON DISTRICT FACILITY No. 118-5150

Committee Co.

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ĺ	Ť	(ATLA)	ľÝ	COL (CULAPP		ALKAL ZPF			PH  Lantyst		HARD	NESS	ΦÜ 114	OR!	FLUC (PF		AMM (F)	ONW M)		RESIDO (PF	IAL CL2 M)		PLA	NT	DEET SY	STEM			Remov.	Inact	Fatar Reduct	Remov	inact.	Reduct.
DATE	RAW	ाम	6FF	RAW:	Eet	RAW .	MÖ EFF	RAW	ŢĖ	6 <b>F</b> F	RAW	EFF	RAW	£FF	RAW	£#F	RAW	EFF	## 신.: 9ET	TL-CL3	FF-CL2 EFF	EFF	RAW	MF//GOINE EFF	SAMPLES	¥1	TEMP F	uangeles: Index	Credii Gundia	Credii Gurdia	Omdit Gurdis	Credit Vitusers	Crodit Viruses	Credit Vinuses
	72	0.4	D 07	84		  se	162	817	7 46	8 24	200	206		<del>                                     </del>	0 35	3 (77	0.20	1 13	020	¥ 30	030	4 10	500	i)	5	<u> </u>	71	0.25	2.50	2.51	5.01	200	6.98	8.98
2	30	04	0.07		!			8 20	7.50	8 10		1		1	0.31	1.05	0.18	111	Q 10	130	0.40	3.90	1				77		2.50	2 38	4.88	2.00	676	8.76
3	29	0.5	0.07	*37		1		9.33	7.41	8 11	i .			1	0.26	113	0.19	1 (34)	0.30	150	0.30	4 00	i		1 1		คือ		2.50	2.36	4.86	2.00	671	B.71
4 }	29	0.5	0.06	56		154	54	812	7 42	0.32	200	200	2	1	0.26	108	0.22	0.79	0.20	. 6Ú	160	3 50	200	0	5	18	(ptd	0.25	2.50	1,62	4.12	2 00	5.35	7.35
5	- <u>27</u> 33	07	0 07	<u>69</u>		150	154	8 15	7.51	8 15	203	204	ļ <u>-</u>	<del></del>	0.42	1 17	0.18	0.05	0 10	1.80	4.10	4.20	600			- 0	-57	0.07	2.50	21 95	24.45	2.00	769.50	771.50
6		0.5	0.07	04	- 1	158	154	8 02	7 50 7 51	8 22 8 02	204	202	1 -	i .	0 43	103	0 19	0.06	0,20	1.70	3 80	4 10 - 3.90	TNTC 400	0	5 5	0	65 65	0.17	2.50 2.50	25.29 22.00	21 79 24 50	2.00	912.23 781.82	914.23 783.82
	30	0.5	0.05	160		160	162	8 18	7 48	639	210	205	i	i	0.51	109	0.32	0.05	0.20	140	3 80	3.90	300	ě	5	1	95	0.32	2.50	21.90	24 40	2 00	772.29	774 29
	31 29	0.5	0.04	41	1	1	,,,,	8 18	7 46	831		Į	!		0.42	10	0 26	0.05	0 20	130	3 80	3 80	1 000	`		-	55 55	7.52	2.50	22.73	25 23	200	807.65	809 65
10	28	0.3	0.04	36	ļ .	1		3 23	7 47	5 38		l	1	ļ	0.38	103	0:20	0.04	0.10	1.20	3.80	3 80	İ		1		65	1	2 50	22.73	24.86	2.00	797 34	799.34
11	29	03	0.06	76	1	tfi-i	-60	8.20	7.4 <del>9</del>	8.2	212	202	2	1	0.39	:12	0.24	0.05	0 10	140	3.70	3.70	300	Ü	1 8	and the second second second	54	0.25	2.50	2174	24.24	200	777 45	779.46
12	27	03	0 07	59	1 1	164	174	8 24	7 53	8 29	216	222	2		0.42	110	0.24	0.06	0.10	150	3.70	3.70		]	5	0	53	0.24	2.50	21 00	23 50	2.00	751 35	753 35
13	32.	03	0.07	75	2	1/6	178	B 23	7,51	8.54	230	220	2		0.29	113	0,26	0.06	0.20	140	370	3 70	900	G	5	Э	52	0.48	2.50	20.74	23 24	2.00	740 92	742.92
14	32	0.3	0.08	79	3	177	178	8 27	7 52	6.34	232	235	2	1.1	0.34	100	0.25	0.09	0.20	140	3.50	3.50	200	. 0	5	٥	62	0.30	2.50	20.61	23 11	200	728.11	730.11
15	30	0.4	0.05	77	}	164	726	R 29	7 52	6.55	224	225	<u> </u>	1	0.32	្រន	0.23	0.08	0.10	1.20	3.60	3.80	700	Q.		3	60	ù <del>6</del> 9	2,50	18.65	21 15	2.00	67526	577.26
16	28	0.4	0.05	76				4 32	7.49	8 34	1		1	}	0 33	1 19	0.20	0.08	0.20	120	3.60	3.80	!			ŀ	39	1	2 50	20 95	23 45	2.00	761 72	763.72
17	28	0.5	0.04	68	1	١.		8 40	7 56	8.48	4.0	200	١.		0 32	1.07	0.21	0.03	0.50	140	4 00	4 00			1		5B		2.50	20 03	22 53	200	742.30	744.30
18	23	03	0.05	77	1 3	164	168	8.27	7 47	8.56	212	220	2		0.31	1.18	0.20	0.21	0.20	30	2 90	3.40	1400	0 0	5		58	0.46	2.50	9.22	11 72	2.00	294,18: 136.74	296.18
19	30	0.3	0.06	84	2	162	164	8 21	7 48	8 41	210	206	2	l .	0.30	1.08	0 23		0 10	1.40	0.40	3.70	1500	0	1 : 1	0	57 56	0.40	2.50	4 91 5 23	7.41	200	142.82	138.74
<u>2u</u>	32	03	0.06	93	+	j 168	176	9 23	7 45	8 41	237	220	1	<del> </del>	0 31	1.14	0.25	126	0 10	30	3 10	360	2300	0	5	0	57	0.30	2.50	5 18	7.66	200	141.39	143.39
21	24	0.4	0.05	78	-	1 ""	176	8 24	7 48	E 42	231	274	1 -	'	0.37	: 13	0.23	1 27	0 10	130	6.20	3 70	1500	ő	1 2	0	57	0.29	2.50	5.41	7 91	200	149 60	151.60
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24	26	0.5	2.05	79	Ì	İ	1	6 15	7 47	8 49	1		ļ	1	0.35	2 05	0.24	1 24	0.20	120	0.20	3 60	İ	ļ		!	58		2.50	5.05	7 55	2 00	132 77	134.77
25	28	0.5	0.05	85	2	1.60	762	8 09	7.45	5.35	2.2	210	1 2	1 :	0.34	1 10	0.27	1.25	0.10	120	0.20	3 80	700	0	ا ۽ ا	- 3	57	0.21	2.50	5.41	7.91	2.00	143 11	145,11
25	20	03	0.06	75	ağı, i a marina a	1000	164	6.08	751	ã 28	218	220	2	1	0 33	1.12	0 25	1.26	0.10	140	0.20	3.93	10XK)	0	5	7.0	60	0 17	2 50	5 65	6 15	2.00	153,91	155.91
21	66	03	0 13	135	1	166	154	8.02	7.75	8 39	220	206	2	1	0.26	1 14	0.35	1 25	0.10	130	0.20	3.40	7400	Ð	1 4 -	0	60	0.28	2.50	5,19	7 69	200	138.94	140.94
26	45	04	0.07	93	į T	170	1772	7.97	7.50	7 85	278	216	17	1 1	0.30	116	0.58	1 19		- 30	0.29	3 90	1400	0	Ę	Ü	59	0.23	2.50	5.35	7.85	2 00	145 70	148.70
29	48	0.4	0.07	97	1	168	164	7.50	1 43	8 33	216	218	2	1	0.37	1.06	0,30	122	0 20	130	9 20	3.60	1400	G	\ =	· ·	50	0.22	2.50	5.43	7 93	200	146 17	148 17
30	52	23	COB	113	1		1	7 97	7.42	8 35	ì		ļ		0.31	1 24			0 10	1 10	0.20	3,30	1		1	Į	62	1	2 50	6 40	8 50	200	166,02	168.02
31	45	0.4	Q.Q8	127	+	+	ļ	7,36	/ 33	8.48	-	ļ	+	-	0.30	1.17	0.33	1 17	0,20	.30	0.20	3.60	<del></del>	<del> </del>	ļ	<del> </del>	61		2.50	671	9.21	2,00	175.93	178,93
TOTAL	<u> </u>			<u> </u>		<u> </u>	ļ	ļ	<u> </u>	Ĺ	1	ļ	<u> </u>		ļ			<u> </u>	<u> </u>			<u> </u>	ļ	20	105	2		<u> </u>						
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PURIFICATION PLANT REPORT

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Taylor Taylor

SUPERPULSATOR PLANT

CLINOIS AMERICAN WATER CONTINUE CONTINUES TO CONTINUES.

Discovered 14

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DATE	PAW	SPI (TI) CHEDENDE	EFF	730) 033 Ark RAW	,Сн <i>фін.ит.</i> ейт		LINETY PMO MG ET I		pH rights	<u> </u>	(Pi	MESS PM)	.170	GR DNI		MAIN TO SERVICE	<u> (P</u> )	ióny. Mi		TLASE.			ME: HAIMS	Mariaoei	CBSTS	รายม ม	₽£#iti:	-angeher	Remov Gredit	inact Creds	Reduct Creek	Remov	inact Credif	Foxal Reduct Grade
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5 7	34 170	23	0.04	64 206	0	198	200 202	8 12 8 04	7.50 7.52 7.54	8 40 8 53	278	270	2	1	031	1 13	0.24 0.28	1.27	0:0	120	0.20	3.50		ļ			42	0.18	2.50	3 20 2 75	5.76 5.25	2.00	86,05 71.09	58.05 73.09
٠	154 185	33	0.05	217 265		166	170	8-00 8-01	7 11 1 24	8 43	222 250 240	276	2 2	1	0.29	106	0.42	1.28	0,20	1.20	0.20	3,50 3,70	2900 3100	0	5	0	43 44	0 19 0 06	7.50 7.50	3 03 3 62	5 53 6 12	2.00 2.00	79.50 89.11	8150 9111
10	184	0.5	0.07	285	t)	168	166	7 94	7 27	7 95 R 46	242	240			0.39	1 28	0 54	1 25 1 26	0 10 9 10	120	0 20 0 28	3.70	7800 4100	0	5	0	44	-0.35	2.56 2.50	3.60 3.77	6 30	2 00	97.27	99.27 96,93
12	80 80	0.0	0.06	155 147	2	180	178	7.97 8.00	731 735	8 45	264	258			0.4d 0.35 0.35	1.09 1.90 £.95	0.50	25 34	0.10	1.50	0 20 0 20	3.50					14		2.50 2.50	3.91 3.91	6,41 6,41	2.00 2.00	97.95 95.49	99.95 98.49
14	57 53	21	0.06	105 82	0	186	186	8 14 8 11	7.45 7.39	8 46	276 276	270	2	1	0.38	115	0 32	1 27 21 1 20	0.10	1.40	0 20 0 20 0 20	3 60	3400 2900	0	5	0	44 43	0.17	2.50 2.50	4 02	6.52 6.05	2.00 2,00	102.50 90.69	104.50 92.69
16	51 59	1.3	0.05	117	ō	197	196 192	8 16 8 5	7.40	8 57 8 51	280 272	276	2	1	0.30	1 13	0.26	127	0.10 0.20 0.10	1:30 1:60 1:30	0.20	3.80 3.60	1300 1500 2600	0		5	29	0.09 0.36	2.50 2.50	130 128	5 8G 5 78	2 00	82.49 79.95	84,49
1A 19	59 65	0.7 6.6	0.05	120					744	861			_		0.30		0 28	1.20	0.10	1.40	0.10	3.00	2000	l u			39 38 38	0.28	2 50 2 50 2 50	2.82 2.33 2.15	5.32 4.83	2.00	59,91 58,29	71 91 60.29
20 21	. 55 40	t.6	0.05 0.05	148 105	Ω 0	196	190 194	8 : T 8 23	7.51 7.56	8 39 8 45	278 290	280	7 2		0.36	1 07 1 09	0.32	1 24	0 10	1.30 50	0.20	3,00	1300	1	1	. ù	36 36	0.12	2.50	1.98 2.30	4 65 4 48	2.00	53.72 49.14 57.18	55.72 51,14 59 16
22 23	36 25	1.5 1.6	0 05	70	0	196 200	198 198	6 26 B 40	765	B.41	290 290	286	3	1	0.28	1.08	0.25	27	0.20	1.40	0.20	3 30 3 30	]	1	-		36 34	0.15 0.16	2.50 2.50	2.19 2.09	4 69	2.00	55.50 51.43	57.50 53.43
25	19 20	2.6 1.7	0.05	71 64				8 35	7'00	8.42 8.42					0 28 0 39	1 00 1 22	0.24	1 20	0.20	1.40	0.20	3 30					34		2.50 2.50	2.08	4 58 4 57	2.00	51.41	53.41 53.33
26	17 15	24 63	0.05 0.05	58 52	G	206	208	E 22	7.50 7.63	8.47 8.29	316	300	?	1	0.38 0.36	1 10 1 19	0 21 0 26	1.19 18	0.10 0.20	1.40	0 20	3.30	400	0	5	p	34	13 04	2.50	2.02	4.51	200	51.34 51.83	53.34 53,83
78 29	13	19	0.05 0.05	67 63	0 0	216	222	B 22 B 24	7.66 7.65	8 26 8.58	314 210	310	2		0.39	14.   109	0 29 .0.21	19	0.10	1.40	0.20	3 40 3.50	800 - 300	0	5	0	34 34	0.03	2.50 2.50	1.96 2.21	446	200	49.57 56.84	51.57 58.84
30	20 17	16 !1	0.04 0.04	57 73	Ü	216	222	8.55	7.66	8 57	312	306	,		0,40 0.30	1.06	0 18 0 18	119 120	0.10 0.10	1.50 40	0.20 0.20	3 60 3 50	600	9			34 36	C 72	2.50 2.50	2 56 2 63	5 06 5 13	2.00	64,99 65.59	66.99 67,59
TO14:			ļ		,					<u> </u>	,	ļ	ļ			···	etin zinang			energiae supe				19	ජා			.,,						
AVI.	62	188	0.050	. 12 -			192	1.15.		F #1/	17.6	773	1-2-	:-	0.36	1.13	9.32	. 35	0.13	1 .:3	_a 16	3 47	3667	. c	<u></u>		<u> </u>	<b>€1</b> *2		1 e±	5.34		7 ( 44)	75,40
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#### SUPERPULSATOR PLANT

ILLINOIS AMERICAN WATER COMPANY / ALTON DISTRICT FACILITY No. 119-5150

January-03

								PHYS	CAL - C	HEMICA	L ANAL)	/a s												LACTERIÓL	ogical:					CT V/	LLES		
	71	URBIDIT (NTU)	Y	COI (CU AP)	OR ARENTI		INITY		pH (UNITS	3		NESS M		OR SKI)		PM)		IONIA PM)			AL CL2		PL	TW	DISTSY	STEM	1	Remay.	Inect.	Total Reduct	Remov.	inact.	- Total Reduc
DATE	RAW	TF	<b>£</b> FF	RAW	EFF	RAW	MO EFF	RAW	ΤF	GPF	RAW	EFF	RAW	EFF	RAW	EFF	RAW	EFF	FR-CL2 BET	TL-CLR 8ET	PR-CI.2 EFF	TL-CL2 EFF	MF/100ml	MF/100mL EFF	No SAMPLES	, A	TEMP	Cradit Glardia	Credit Glardia	Credit Glardia	Credit Viruses	Credit Virumes	Credit Vinises
1	14		0.041	52										_	0.32	1.01		1.08	0.30	1.90	0.20	3.40	<del>                                     </del>				39	2,50	2.00	4,50	2.00	65.00	68,00
2	13		0.041	51	8	188	180	9,00	7.80	7.50 7.58	238 248	240	2	!	0.34	1.10	0.33	1,04	0.20	2;00	0.20	3.60	800	0	5	0	40	2.50	2.37	4,87	2.00	75.71	77.71
2	12			50 50	7	188	184	9.00 8.70	7.80	7.80	240	242	2	'	0.29	1.04	0.38	1.02	0.20	1.80	0.30	3,50	600	0	5	a	39 39	2.50 2.50	2.11 2.05	4.61 4.55	2.00	67.01 65.02	69,01 67,02
8.	12	1.60	0.044	55			f	8.70	7:80	7.60					0.42	1.01	0.29	1.04	0.20	1.90	0.30	3,40	1				39	2.50	2.04	4.54	2.00	66,22	68.22
6	11	4.10	0.048	45	1	166	180	9.05	7.82	7.54	242	236			0.34	1.08		1.05	0.20	2.00	0.30	3.50	4400	ō	5	0	39	2.50	1.65	4.38	2.00	59.90	61,90
7	11	3.40	0.045	. 48	3	190	164	8,03	7.90	7.55	240	248	2	-1	0.34	1.05	0.37	1.09	0,20	1.90	0.20	3.30	700	0	5	0	39	2,50	1,61	4.31	2.00	57,08	59,08
8	10	1.80	0.048	46	4	174	160	9.05	7:90	7.53		240		1	0,32	1.04	0.32	1,09	0.20	1,90	0.20	3.20	1000	C	5	Ů	39	2.50	2.06	4:58	2.00	65,29	67,29
9	9	1.90	0.048	46	1	186		9.03	7.84	7.60		240			0.29	1.05	0.37	1.34	0.20	1.90	0,30	3.20	400	0	5	D	39	2.50	2.07	4.57	2.00	66.64	68.64
- 10 11	10	3.00	0.047	44		190	158	9.02	7,83	7.52	240	234			0.31	1.04	0.30	1,19	0.20	1,80	0.20	3,40	500	0	5	0	39	2.50	3,98	8,48	2.00	147.90	149.90
12	A		0.048	45				8.50	7.60	7.50				1	0.38	1.19	0.33	0.91	0.20	1.90	0.20	3.20 3.30	ł		1		38	2.50 2.50	4.34 4.35	6.64 6,85	2.00	166.38 160.93	166,36 162,93
13	7	1,50	0.049	42	3	182	158	8.98	7.77	7.48	238	234	1	1	0,32	1.07	0.37	0.95	0.20	1.80	0.20	3.40	200	0	5	a	38	2.50	4.16	8.66	2.00	150.88	152.86
14	7	1.70	0.053	42	2	184	160	8,94	7.82	7.49	240	246	2	1	0.30	1.01	0.32	0.91	0.20	1.70	0.20	3.30	100	ŏ	. š	ŏ	38	2.60	4.30	8.80	2.00	157.93	159.93
15.	7	2.10	0.050	41	4	190	160	8.93	7,77	7.48		228	. 2	_1_	0.31	1.07	0.28	0.60	0.10	1.60	0.20	3,30	600	a	. 5	0	38	2.50	4,08	6,59	2.00	149.22	161.22
16	7	2.20	0.046	35	2	190	164	8.47	7.66	7,43		240	3	1	0,36	1,05	0.37	0.63	0.20	1,60	0.20	3.10	200	0	- 5	Ç	37	2.50	3.31	5;81	2.00	114 48	110.46
17 18	7	2.40 1.80	0.043 0.045	3 <del>8</del> 44	1	192	100	8.66	7,88	7.40	250	244	3	1	0.38	1.07	0.32	1,00	0.10	1.60	0,20	3,10	400	0	5	. 0	37	2.50	4.12	8,62	2.00	144.79	146.79
10	é	1.10	0.048	42			l	8.50	7.70	7.50	1	Į .			0.40	1.14	0.35	0,59	0.20	1.80	0,20	3.40	Į				32	2,50	3.56	6.06	2.00	130.08	132.06
20	8	1.83	0.044	37	2	190	182	8.77	7.73	7.41	244	230	2	4	0.34	1,12		0.95	0.20	1.70	0,20	3,40	l				32	2,50	3.49 2.99	5,99 5,49	2,00	128.63 105.66	130,83 107,66
21	6	2.10	0.043	40	4	192	168	8.74	7.72	7.42	242	238	2		0.37	1.16	0.30	0.98	0.20	1.70	0.20	3,30	900	ō	5	В	32	2,50	2,64	5,14	2.00	92.40	94.40
22 (	6		0.045	41	3	192	170	8.76	7.73	7.45	250	248	_		0.37	1 18		0.98	020	1.70	0.20	3.20	1 0	ŏ	5	ŏ	32	2.50	3.11	5.61	2.00	108.85	110.85
23	8	2.20	0.048	48	2	196	172	8:76	7.71	7:43	250	248	2	1	0.35	1.15	0.33	1.07	0.20	1.70	0.20	2.90	200	0	] 8	0	32	2.50	3.42	5.92	2.00	119.66	121.66
24	6	2.00	0,050	48	5	198	170	8.69	7.69	7.48	250	248			0.34	1.12	0.37	1.07	0.20	1.60	0.20	3,10	100	0	5	O	32	2,50	2.52	5.02	2.00	87.22	89.22
25	-	2.70	0.052	43		<b>}</b> -	-	8,50	7,60	7.50	<del> </del>			<u> </u>	0,37	1.07	0.42	1,13	0,20	1.80	0.30	3,30	<u> </u>	<u> </u>			32	2,50	2.70	5.20	2.00	98,90	98,90
26 27	6		0.081	49 40	4	192	170	8.50 8.72	7.60 7.67	7.50	250	244	2		0.32	1.01	0.38	1.06	0.20	1.90	0.30	3.30	1		1 . 1	_	32	2.50	2.71	5.21	2:00	96.90	96.90
28	Ŕ	2.10	0.053	43	2	190	170	8.78	7.70	7.40	250	242	2	1	0.38	0.98	0.38	1:02	0.20	1.70	0.20	3.20	1400	0	1 1	0	32	2.50	2.55	5.05	2.00	88.20	90.20
29	7	2.10	0.062	34	6	198	170	8:74	7.72	7.A7	250	244		Ι'	0.34	1.12	0.28	0.63	0.20	1.60	0.20	3.20	300	١	5	Ď	32 32	2.50 2.50	3,13 1,45	5,63 3,95	2.00 2.00	110.58 49.50	112.58 51.50
30	7	3.70	0.056	40	5	198	170	8.71	7.71	7.45	252	248	2	1	0.35	1.07	0.27		0.20	1.50	0.20	3.10	200	ŏ	š	Ö	32	2.50	1,47	3.97	2.00	48,09	48.09
31	8	1.40	0.054	38	3	198	174	8.81	7.76	7.45		254	2	1	0.33	1.12		0.92	0.20	1.70	0,20	3,30	1600	ġ.	[ š [	ō	32	2,50	1.68	4.18	2.00	52.99	54,99
TOTAL																								q	-504	Û							
AVE.	a	2.26	0,044	44	3	190	166	8.77	7:74	7.49	245	241	2	1	0.34	1.07	0.33	1,01	0.20	1.76	0.23	3.27	695	ò	5	0	35		2.85	5,35		99,85	101.85
MAX	-14	4.50	0.062	50		196	180.	9.05	7,92	7.80	252	254_	3_	1	0.42	1.19	0.42	1.34	0.35	2.00	0,30	3.50	4400	<u>0</u>	. 6	0	140		4.35	6.85		166,38	188,38
M/N.		1.10	0.041	34	1	174	-158	8.47	7,60	7.40	236	228	-2-	1	6.27	0.94	0.27	0.60	0:10	1.50	0.20	2.90	0		4	٥	32		1,45	3.95		46,00	46.09
COUNT		L:		·				l						ļ		İ						,	İ										

Joseph Forey

#### SUPERPULSATOR PLANT

ILLINOIS-AMERICAN WATER COMPANY / ALTON DISTRICT FACILITY No. 119-5150

February-03

ī								PHYS	CAL C	HEMICA	L ANALY	BiS.							****					SACTERIOL	OGICAL					CTNA	Tries		
	ŤĹ	PRESENT CNTUS	Ÿ	GO! (GU APP	ARENT)	ALKAL (PP			pH (UNITS	,	HARD	NERS M)	IG II)			REDE Mi		ONSA .			AL CL2		PÜ	MT	DISTEY	STEM	1	Remov.	Inect,	Tatal Reduct.	Remov.	inact.	Total Reduct
DATE	RAW	TF	EFF	RAW	EFF	RAW	MO EPF	RAW	TF	EFF	RAW	EFF	RAW	EFF	RAW	EFF	RAW	EFF	FR-CL2 SET	UCC)	FR-CL2 EFF	TL-CL2	MF/100ml RAW	MF/100mL EFF	No. SAMPLES	₽ >1	TEMP	Credit Glardia	Credit Gisrdie	Credit Glerdia	Credit Viruses	Credit Vicuses	Credit Viruses
7	7		0,050	41				6.60	7.70	7.50					0,24	0.92		0.64	0.20	1.70	0.30	3,30		<b></b>			32	2.50	1.65	4.15	2.00	53,38	55.58
2	8		0.047	39 43	1	192	188	8.93	7.70 7.81	7 52	248	242	2		0.29	1.00	0.35	1.01	0.30	1.60	0.20	3,30	600	0	5	o	32	2.50 2.50	1.53	4.03 4.17	2.00	50.25 52.59	52.25 54.59
4	14		0.045	43	5	200	170	8.90	7.82	7.49	200	244	2	1	0.33	0.95	0.35	1,02	0,20	1,60	0.20	3.40	400	ŏ	5	ŭ	32	2.50	1.85	4.35	2.00	59,28	81.28
5	11	8.60	0,048	45	5	190	202	8.94	7,80	7,52	260	256	2	1	0.35	1.04	0.30	1,00	0.20	1.60	0,20	3.30	0	0	5	C	32	2.50	1,81	4,31	2.00	80.41	82.41
	10		0.053	41	3	200	174	9.01 B.01	8.08	7.60	254 254	250 252	2 2	1	0.40	111	0.30	1.01	0.20	1.60	0.20	3.40	300 500		5	0	32	2.50	1.59	4.09	2.00	52,03 55,64	54.03 57.64
, i	10		0.087	44	•	200	,,,,	6.90	7.80	7,60	254	202	1	'	0.50	1.15	0.35	1.02	0.20	1.60	0.30	3.30	300	"	] "	"	32	2.50	1.50	4.00	2.00	51.89	53.89
9	10	3.00	0.043	42				8.90	7.80	7.60				1	0.44	1.06	0.24	1.03	0.20	1.50	0.40	3.10			1	ł	32	2.50	1.42	3.92	2.00	47.70	49.70
10	11		0.047	42 37	1_1_	200	172	9.07	7.96	7.58	258	254 248	<b> </b> -		0.40	1.04	0.29	1.05	0.20	1.60	0.20	3.30	600	0	5	0	32_	2.50	1.56	4.10	2.00	50.35 50.54	52.35
11 12	11		0:049	43	6	196	172	8.99	7.84	7.49	258	250	2	1	0.34	0.89	0.23	1.05	0.30	130	0.20	3,30	400	ő	5	ŏ	32	2.50	1,64	4.14	2.00	51.36	53.36
13	10	1.00	0.051	40	1	198	170	9.08	7.93	7.59	256	252	2	1	0,31	0.94	0.28	1.07	0.30	1.30	0,30	3,30	100	0	5	0	33	2.50	1.66	4.15	2.00	54.55	58.55
14	10	0,80	0,054) 0,054	42	2	194	174	9.08	8.01 7.80	7.70	242	242	1	1	0.48	1.18	0.27 0.28	1,05	0.30	1.40	0.20	3,30	0	٥ ا	5	٥	33	2.50 2.50	1.48	3.98 4.09	2.00	48.37 50.82	50.37 52.82
18	72	1.00	0.056	52	<b>-</b>	†		8.70	7.70		<b>!</b>	1	1		0.37	0.82	0.29	1.02	0,30	1.40	0,30	3.30	<del>                                     </del>	<del> </del>	<del> </del>		33	2.50	1.75	4.25	2.00	54.98	56.98
17	17		0.053	58	3	192	170	B.94	7.71	7.45	256	260	2	1	0.38	1.02	0.31	1.05	0.20	1.20	0.20	3,10	800	0	4	0	32	2,50	3,83	8.13	2.00	129.41	131.41
18 . 18	23 35		0.082	63 73	8	180	168 158	8,97	7.77 7.64	7.50	254 234	252 236	2 2	1 1	0.31	1.05	0.31	1.08	0.30	1.20	0.30	3.20	700	1 6	5 5	0	32 32	2.50 2.50	2.97	5,47	2.00	108,19	98.29
20	26	1.00	0.083	68	. 7	190	154	8.01	7.64	7.40	238	232	2	<u>i</u>	0.32	0.92	0.35	1,10	0.30	1,30	0.30	3,30	300	ă	5	o o	33	2.50	2.98	6.46	2.00	141.26	143.26
21	26	1.10	0.068	76	3	190	156	8,99	7.62	7.38	240	238	2	1	0,31	1,01	0.32	1:11	0,30	1.20	0,30	3.10	1200	0	5	G	34	2,50	4,25	6.75	2,00	149.63	151.63
22 23	27		0.074	73 70	1	[ '	ì	8.70	7.60	7.40	1	1	1	1	0.31	1.08	D.35	1,13	0.20	1.20	0.30	3,20	1	1	<b>\</b>	1	35 35	2.50 2.50	3.84	8.34	2,00	133.71	135.71 139.95
24	23		0.083	69	7	190	160	8.88	7.59	7,35	254	246	2	1	0.37	1.11	0.41	1,17	0.30	1.20	0,30	3,10	300	o	5	0	35	2.50	3,59	6.09	2.00	122.28	124.28
25	24	0.90	0.063	73	1.4.	188	182	8.95	7.84	7.36	250	244	2	1	0.41	1.12	0.34	1.12	0.20	1.20	0.30	3.30	200	0	5	0	34	2.50	4.07	8,57	2.00	141.17	143.17
26 27	23 19	1.50	0.084	72 66	S B	158	156 158	9.02	7.70	7.37	245	240	2 2	1	0.38	1.12	0.27	0.91	0.20	1.20	0.20	3.10	800	0	5	0	33	2.50 2.50	3.68	6.18	2.00	128.07 128.27	130.07
26	17		0.080	64	7	190	160	9.09			242	236	2	l i	0.35	1,08		0.93	0.20	1.20	0.20	3,30	200	ő	5	i o	33	2,50	3.79	6.29	2.00	136.08	138.08
29	H	ĺ	l				l	1				]	i				l	1	1	1			1		ĺ	ŀ	1				}		ľ
30		1	1		1		1	1	1	1	1	1	1	1	1	1	1	Ì '	1	1		1	1	1	1	1	1	1	1	ì	ì	İ	1
TOTAL																			<b>├</b> ┈─			ļ		0	98	g.			1		<u> </u>		
AVE	10	1 81	0.058	54	5	193	157.	8,92	7.78	7,40	260	248	2	1	0.36	1.03	0.31	1:04	0.23	1,38	0.24	1,25	420	0	5	Ġ	32		2.50	5.00		85.82	87.62
MAX.	35	4,50	0.087	.716	۰	200	203	9.10	8.08	7.70	260	200	2_	1	0,50	1,18	0.41	1,17	0:30	1.70	0,40	3,40	1200	0	. 5	0	35		4.25	0.75		149,63	151.63
WIN.	- 7	0.70	0.043	37	1	180	154	8.60	7.50	7.35	234	232		1	0.24	0.70	0.23	0.91	0.10	1,10	0.20	3.10				9	32		1.42	3.92		47.70.	48,70
COUNT					L	1			<u> </u>		<u> </u>	l	L		<u> </u>	[	ļ.,		L.,	l		İ	1			1	1		1			'	ĺ

4 Janus Formy # 8861

#### ANT REPORT

# SUPERPULSATOR PLANT

4LLINOIS-AMERICAN WATER COMPANY / ALTON DISTRICT FACILITY No. 119-5150

March-03

ļ								PHYSI	CAL-C	HEMICA	L ANAL					· · · · · ·								ACTERIOU			<b>]</b>			CTV	LUES		
	Ť	/RBIDIT (NTU)		COI (CU APE		ALKAL (PP			pH (UN(ITS)		HARD (PP		οδ (TC		FLUC		AMM (PF				IAL CL2		PLA	NT	DISTSY	STEM	]	Ramov.	Inect.	l'otal Reduct	Remay.	Inact	Total Reduc
DATE	RAW	TF	EFF	RAW	EFF	MO RAW	MO EFF	RAW	TF	EFF	RAW	EFF	RAW	EFF	RAW	EFF	RAW	EFF	FR-CL2 SET	TL-CLZ SET	FR-CL2 EFF	TL-CL2 EFF	MF/100ml RAW	MF/100mL EFF	No. Samples	# .21	TEMP F	Credit Giarda	Credit Giardia	Credit . Giardia	Credit Viruses	Credit Viruses	Credit Viruse
1	16		0.058	62				7.80	7,60	7,50					0.46	1.16	0.27	0.68	0.30	1.30		3.40	<del> </del>				33	2,50	4.26	6,76	2.00	158,01	160.0
2	14		0.052	55				7.89	7.80	7.51 7.50	224	230			0.48	1.19	0.29	0.93	0.20	1.30	0,20	3.40	400	ا ا	ا ۽ ا		34	2,50	3.75	6.25	2.00	137,53	139.5
3	14 15		0.057 0.055	50 60	9	178 176	150 150	8,98 9,12	B.02	7.75	234	228	2	1	0.31 0.29	0.95 0.97	0.33	0,95 0,90	0.30	1,40	0.20	3.30 3.10	100	l ö	5	٥	34 35	2.50 2.50	3.90 3.45	6,40 5,95	2.00 2.00	142,92 129,99	144,9 131,9
5	15		0.054	51	7	172	150	8.96	7.78	7.49	228	228	2	l i_	0.32	0.98	0.33	0.90	0.10	1.20	0.20	3,40	100	0	5	Ö	35	2,50	3,80	6,30	2.00	139.64	141.8
6	15		0.051	70	3	176	150	9.04	7,98	7.71	232	222	2	1	0.33	0,98	0.34	0.93	0.10	1.40	0.20	3,30	300	0	5	0	35	2.50	3.19	5.69	2.00	125,13	127.1
7	15		0.051	80	0	172	150	8.97	7.76	7.52	232	232			0.33	1.01	0,31	0.99	0.20	1.40	0,20	3.20	200	0	5	0	36	2.50	3.14	5.64	2,00	114.31	116.3
٠	15 14		0.053	76 82	i.			7.78 7.83	7,80	7.66	1				0.36	1.08	0.32	0,94	0.20	1.40	0.30	3,20					36 37	2,50 2,50	3.33 3.71	5,83 6,21	2.00	127.97 142,62	129.9 144.6
10	. 14		0.056	73		170	148	8.88	7.88	7.51	230	230		L	0.33	1.01	0.34	0.91	0.20	1.40	0.30	3.10	100	0	. 5	_ 0 _	37	2,50	3.54	6.04	2.00	127.78	129.7
11	14	0.90	0.063	77	7	168	144	9.06	7.63	7.25	226	226	2	1	0.33	98,0	0,30	0.95	0.20	1.40	0.30	3.20	100	0	5	0	37	2.50	4.19	6.69	2.00	138.30	140.3
12	14	0.80	0.061 0.059	79	0	166	144	8.99	7.80	7,50	222	222 210	_		0.33	0.99	0.35 0.32	0.92	0.20	1.40	0.20	3.10	0	0	5	0	37	2.50 2.50	3,88 3.65	6.38 6.15	2.00 2.00	141.09 131.33	143.0 133.3
13 14	18 27	2,00	0.058	78 91	0	162 168	136 142	9,00 8.84	7.61	7.48	212	222	2 2		0.29	0.98	0.32	0.91	0.20	1.20	0.20	3.10 3.30	700	0	4	0	39 39	2.50	3.88	6.15 6,38	2.00	141,61	143.8
15	24	1.20	0.050	86	L			8,00	7.60	7.40			L	l	0.36	1,31	0.37	1.01	0.20	1,30	0.30	3.20	'**				40	2,50	4.76	7.26	2.00	168.80	170,8
16	23		0.049	84				8.00	7,70	7,40				Γ.	0.37	1.38	0,37	0.97	0.30	1.30	0.30	3.20					41	2.50	3,99	6.49	2.00	140.98	142.90
17	20		0.055 0.062	78	2	166 166	138	8.90 8.78	7.78	7.44	226 222	214	2	1	0.32 0.28	1.05	0.32	0.98	0.20 0.20	1.40	0.20	3.20	500 100	0	5	0	42 43	2.50	4.65 5.76	7.15	2.00	165,29 202,26	167,2
19	29 23		0.062	68 60	1	170	144	8.76	7.88	7.35	228	224	2 2	1	0.26	1.11	0,28	0.91 0.92	0.20	1.30	0.20	3.20	100	0	5 5	0	44	2.50 2.50	5.95	8,26 8,45	2.00	202.26	208.7
20	32	0.60	0.087	75	5 .	168	146	8.72	7.75	7.41	230	230	2	Li	0.40	1.18	0.34	0.87	0.20	1.20	0.20	3.10	200	1 ő	5	ŏ	45	2.50	5.51	8.01	2,00	195,14	197.1
21	50		0.072	62	6	184	144	8.53	7.64	7.42	268	238	2	1	0.39	1.08	0.34	0.69	0.20	1.40	0.30	3.00	3000	0	5	0	45	2.50	5.54	8.04	2.00	197,34	199.3
22	45		0.071	87		1		8.87	7.60	7.20			1		0.37	1.06	0.38	1.03	0.20	1.30	0.20	3.10	.]				49	2.50	7.10	9.60	2.00	242.86	244.8
23 24	58 41		0.078	132 124	10	164	136	8.85 8.41	7.53	7.31	230	224	2	1	0.28	1.27	0.44	1.00	0.20	1.20	0.30	3.10	1800	n	5	٥	48 49	2.50 2,50	7.15 7,18	9.65 9.68	2.00	244,62 248,25	246.6 250.2
25	35	0.90	0.084	121	14	166	136	8.47	7.46	7,32	230	222		l	0.35	1.07	0.51	0.96	0.20	1,10	0.30	3,10	500	ŏ	5	٥	50	2,50	7,10	9,60	2.00	245.40	247.4
26	30		0.059	107	13	164	142	8.60	7.52	7.26	240	230	2	1	0.34	1.06	0.48	1.03	0.20	1.20	0.30	3.50	0	0	5	0	50	2.50	8.60	11.10	2.00	296.07	298,0
27	25		0.058 0.062	98	12	172 160	152 154	8.56 8.70	7.51	7.38 7.45	240	232 229	2 2	] 1	0.37	1.07	0.43	0.88	0.10	1.20	0.20	3.40	200	0	5	0	51	2.50	8.21	10.71	2,00	298.16	300.1
28 29	27 26		0.058	99 87	] 3	180	754	8.75	7.60	7:40	240	228	1 2	1	0.33	1.08 1.07	0.40 0.46	0.98	0.20	1.20	0.30	3.40	1600	0	5	٠ ا	51 51	2,50 2,50	8.24 8.30	10.74	2.00	307.28	309.2
30	24	0.90	0.052	72				8.78	7.60	7.42					0.34	1.15	0.40	0.95	0.20	1.50	0.20	3,60	1	i i			50	2.50	7.89	10.39	2.00	290.71	292.7
31	24	1.00	0.053	ा	0	164	149	8.66	7.82	7.45	238	228	2	1	0.35	1.05	0.39	0.95	0.10	1.30	0.20	3.50	500	0	5	O.	49	2,50	6.00	10,50	2.00	297.58	299,5
TOTAL					·			<u> </u>						<u> </u>										0	104	Q.							
AVE.	24	1.20	0.059	81	5	169	145	8.63	7.69	7.45	232	228	2	1	0:35	1,07	0.36	0.95	0.20	1.31	0.24	3.24	505	0	5	G	42		5.34	7.84		191,90	193,90
MAX.	58	5.00	9.078	132	.14	184	154	8.12	8.02	7.75	266	238	2	_1_	0.48	1,38	0.51	1.03	0,30	1.50	0.30	3,60	2000	0	6	_0	51		8,60	11,10	-	307.2B	309.25
M‡N.	14	0.60	0.049	50	0_	160	136	7.78	7,48	7.25	212	210	2	1_1_	0.28	0.94	0.27	.0.88	0.10	1,10	0,20	3.00	0	0	4	o	33		3,14	5,54		114.31	118.31
COUNT		}			<b>\</b>			1	}	1			į	}				ا ا					1	<b>!</b>	}	1	1	<b>\</b>	İ				

hOusine Pouring #18861

SUPERPULSATOR PLANT

ILLINOIS-AKERICAN WATER COMPANY / ALTON DISTRICT FACILITY No. 118-9150

																																		_						
	7	Rectuci	Credit	Vinsea	288.54	289.63	308.36	304.97	359.01	288.27	251.28	321.53	340.38	283.63	242.11	272.69	280,75	284.84	274.74	316,75	424,10	428.52	424.35	390,25	377.88	392.78	421.B0	415.72	469.48	368.3	371.87	375.77	427.32	356.39	200		33261	458.46	200	
		mect	Ç G	Victoria	284.54	267.63	367.36	302 97	357,01	288.27	249.26	318.53	338.36	281 63	240.11	270.69	268.75	20 00	272.74	314,75	422 10	424.52	422.35	388.25	375 88	380.78	419.80	413.72	457,48	788	369.87	373.77	125.32	8. 75 36 37			341.63	457.48	240.11	
	UE8	Кетач	Credit	Vincette	2.00	202	28	8	200	8	28	8	2.00	200	500	8	8	28	30	2.00	500	8	8	200	8	200	8	200	7.00	500	8	8	8	8	2.130					
	CT VALUES	Total	5	Giendia	9.86	9.82	10.81	10.08	11.97	10.08	9.20	11,18	1,52	10.25	9,45	86.6	10.46	10 03	10.43	11.26	13.84	13,83	13.98	12.09	12.55	13,26	13.84	13.88	14.81	12,80	5.93	2,00	13,87	8	22		28	14,41	2.50	
			Creeking		7.46	7.12	6.03	6.76	9.47	7.58	6.70	9.89	8,02	7.75	8.95	7.49	96.	7.53	7,83	8.78	# X	11.33	11.39	10.49	30.05	10.78	7.34	11.38	12.31	<del>호</del>	10,43	10,10	- 3	90,00			8	12.31	0.70	
			Cred		2.50	2.50	250	2.50	2.50	250	2.50	2,50	2.50	2.50	2.50	2,50	230	2.50	2,50	2.50	2.50	2.50	250	250	255	2.50	2.50	250	250	7.50	250	8	8	2.50	2.50	_			_	_
_	1		EMP	_	8	8	C.I	8	55	2	8	Z,	ij	- 20	S	<b>5</b>	23	8	7	8	<u>.</u>	2	-33	3	8	58	果	#	88	8	27	8	8		1			-5	g	
				۲ .	o	0	0	0	_ !	-	0	o	a	٥	_			0	a	o					0	٥	0	ó	0		_	0	0	0	1	0		٠	5	-
	ICAL:	DIST SYSTEM	2	S HOLES	103	10	si)	1()		-	40	47	w	46	S	•		٠	is;	45		_			vo	se,	٠,	iri	-			·;	<b>4</b> 0.	47	1	8			•	
	BACTERIOLOGICAL		MF/100rnC	*	ó	a	0	0	-	-	0	C)	-	0	0			0	•		-				0	o,	0	ø				Ó	0.	0	1		6	6	Q	-
	BAC	3	V100mL MF	PAS.	400	8	ş	9		_	S	8	8	-00	5		_	8	Ş	8			_	-	ş	8	2800	200	8			g	00	8	1	اِن <b>ـ</b> ـــ	Ş	2900	8	-
_	-		PL-CL2 ME/100mL	#	8	8	90	o	20	5	8	10	0	-	00	8	20	30	3.40	8	8	8	S	8	3.20	S	2	Q	9	S.	Ş	20	33	<del>Ş</del>	1	_	3	3.90	2.80	
		3	3 12	#	0.20	_		-	-	020		_		_	_	٠.,	_	_		H	2.5				0.20	_	_		-1	_	-	-	-	_	1				0.20	-
		REBIONAL CL2	Į,	15	ت	_	_	_	_	00-1	_	_	_	_	L.		٠,			<b>⊢</b>		-		_	٠.	<u>.</u>	-	20	-4	9	_	-	٠.,		1	-	1.25	-	-	_
		Æ	N.	ET.	_	-		_	_	_		_	-	_	-		_	_	_	ι	_	_		-	0.0	-	-	3.0	0.70	2	2	2	2	R	1		9	0.30	0.10	-
	į	<b>3</b> -	F	监	0.92	_		نت	88	_		0.87	-	36.0	بند	980	_	-	-	28.0		_	<u></u>		٠		_	2	-	680	860	_	98.0	-	1	_	8	107	0.06	
	1	AMMONIA (PRM)	٦_	HAW		_	-		0.33	0.32				_	090	-	_	_	-	80	-			_		حين	÷	_	-	-	37	8	33	0.32	1	-	8	190	0.29	-
		9 5		밥	1.07		-	-	1,11				8				÷		_	_		~	~	_	901		_	_	0.97	50	8	ě	0.99	8	1		3	1,11	163	
		POR COLUMN	Γ	RAW	0.38	0.38	0.40	0.39	0.40	0.38	0.0	0,35	80	0.31	0.32	0.32	0,32	8	0.32	0.30	0.35	0.39	0.42	24,0	0.38	98.0	0.35	0.20	0.32	4.0	8	0.32	80	027			0.39	0.44	0.27	
		15 (SO)	L.	#	E	-	-			L	7		-	•	,			-		-	-				-		<u>.</u>	-				Τ.	-	-		_	_		-	
	1		L	P.	7	CA.	64		_	L	N		N	2	2	_	_		7	_	63		_		2	_	7					~	_		]	_	~	-	~	
	YBIS	SNES8		4	228	244	216	2		۰	_		242	-	-			-	-	228	-			_	3	ň	218	22	214		-	2	_	-	]		å		-	
	L ANA	Address Addres		\$	82	_	-	_		L		_	7.42	_	_		_	_	_	8	_	_			٠.	_		2	_	_		8 -	_	_	1	_	8	-		
	HEMIC			<b>5</b>	7.52	-	_	_	_	ļ.,,,,	_	_	_		_	<u> </u>	_	_	-	_	~~	_		-	-	_		-	_	_	_	_	~-	_	1		7.41	7.84	7.23	
	3	Y.	L	#	7.83									_	j		_	_	_		_	_	_		7.48		_	-	-	_	_	_	_	_	1		2.41	7.88	7.	
	PHYS			Š.	8.63	8,56	8.72	8.60	9.08	9.05	8.59	8.45	8.45	9.34	8.36	8	8 60	8.35	9.48	8 8	8.85	8.50	9.50	83	8.16	8.16	8	27	8.15	0	6	9.	8	8.15	1		6.67	80	80	
		KALIMITY	Ş	7	Ž.	162	\$	ş			162	164	8	7	142			3	ŝ	3	5		_	_	ş	160	9	ä	142			8	2	7			153	172	142	
		CMLAX.M.	ģ	&¤¥	176	182	13	8		_	8	8	2	8	164			168	78	2	152				8	9	195	2	170	_	1	2	<u>=</u>	8			170	56	151	_
		8		ŧ	æ	0	Đ	2	i		8	60	Ç	5	8			61	₹	9	40				~	7	=	<b>6</b> 1	\$			0	2	۲.			•	\$3 53	o	
		COLOR Cu Apparation		RAW	92	×.	2	8	2	88	£	ķ	139	25	119	8	8	2	82	2	2	83	Ę	67	8	97	63	2	<b>8</b> 6	R.	2	97	29	8			ts.	139	90	
			1	143	980	990	883	072	2,073	88	90	8	.085	2007	052	790.0	85	290	990	690	070	0,000	200	0.059	980	1900	8	083	0.083	800	8	90	800	800	1		8	0,070	0 053	!
		TURBIO(TY	1	<u></u>	0.84	1.15	727	0.70	1.50 [C	0.0	0.80	0.00	0.70	080	1.00.1	8	2,90,0	1.20	080	080	0.50	0.50	0.50	0.80	0.50	9.50	000	0.50	0.50	0.80	9	6	1,20	8	1		100	2.23	_	_
	i	₹ `		RAM	-	-	_	_	_	-	_	_	_	_	_	_		_		-	_	~	_	_	=	-	_	_		-	_	_	_		1		2	16	1,	
_	_		<u>.                                    </u>	DATE	-	~	÷	-	45	-	_	•	_	2	=	ŭ	2	3	52	55	£	ē	•	8	2	ĸ	8	8	25	8	27	78	8	R	ž	TOTAL	¥,	XAX	MIN	COUNT
										•																			_	_										

#### SUPERPULSATOR PLANT

ILLINOIS AMERICAN WATER COMPANY/ALTON DISTRICT FACILITY No. 118-5150

Way-

								PHYSI	CAL - CI	HEMIĆA	Ł ANALY	/sis		<del>,</del>		<del></del>	<del></del>	· · ·		<del></del>				ACTERIOL	DOICAL					C7 YA	LUES		
	Ti	JRBIDIT (NTU)	Ý	COL		ALKAL			pH (UNITS)		HARD		OD OC	QR XN)	f Uo			ONA MI		RESIDU (PF			PLA	MT .	DIST BY	STEM	]	Remov.	inset	Total Reduct	Remov	inact.	Total Reduct
DATE	RAW	7F	EFF	RAW	EFF	RAW	MO	PAW	TF	EFF	RAW	EFF	RAW	Eck	RAW:	EFF	naw.	6FF	SET			FLC (2 EFF	MF/100ml	MF/100mc	No: SAMPLES	# >1	TEMP	Credit Glardia	Credit Glardia	Giastila Credit	Credit Viguates	Credit Viruses	Credit Viruses
1	56	1.20	0.077	70	13	154	142	8.35	7,47	7,58	208	202	2	1	0.28	0.97	0,31	0.97	0. to	1.20	0.30	3,50	1100	0	5	0	62	2,50	10,16	12.06	2,00	401.06	403,06
2	55		0.084	73	10	154	144	B 14	7, 10	7.45	208	206	2	1	0.27	1.00	0.34	1.04	0.20	1.30	0.30	3,50	700	. 0	5	0	63	2,50 2,50	10.79	13,29	2,00	408.07	408.07
3	73 92	0.50	0.062	83 98		[	į į	7.80 7.90	7.30	7,50 7,50		i i	i		0.24	0.98	0.38	0.97	0.20	1.20	0.30	3.60	<b>(</b> )	ł			62 62	2,50	10,89	13,39 13,25	2.00	412.53	421,18 414,53
3	125		0.062	120	10	144	136	7.92	7.32	7.45	202	194	2	1	0.29	0.99	0.42	0.92	0.20	1.00	0.20	3.40	6300	a	5	0	60	2.50	10.21	12,71	2,00	383 25	385.25
8	194		0.086	135	15	174	154	7.94	7.42	7.39	230	224	3	1	0.33	1.41	0.42	1.00	0.30	1.00	0.30	3.20	2500	0	5	Ö	83	2,50	9.35	11.85	2.00	334.38	336,38
1	194	0.60	0.085	137	10	180	150	7,99	7,37	7.47	240	230			0.33	1.20	0.43	1.05	0.20	1.00	0.30	3,10	3100	0	5	٥	63	2,50	9.75	12,25	2.00	360.93	362,93
ð	203	0:40	0.063	124	11	150	140	7,86	7.33	7.47	222	216	2	1	0.35	1.38	0.46	1.05	0.20	1.50	0.30	3.20	2700	0	5 5	0	62	2.50 2.50	8.77 7.54	11,27	2.00	324.76 282.18	328,76 284,18
9 10	278 I		0.057	138	10	152	148	7.96	7.37	7.48	236	232	2	,	0.37	0.98	0.43	1.04	0.20	1.00	0.20	3.20	5100	} "	]	Q.	62 64	2,50	10.06	12.56	2.00	378 94	380.94
11	437		0.065	250		<del>                                     </del>	_	7.80	7.20		-	-			0.37	1.06	0.59	0.99	0.10	0.80	0.30	3.10		<del> </del>		<u> </u>	56	2.50	12.18	14,68	2.00	454,39	458.39
12	584	0.40	0.055	292	10	134	120	7,57	7,21	7.41	210	202	2	1	0.34	1,01	0.52	0.98	0.30	1.30	0.30	3,40	8400	Ö	[ 5 ]	0	63	2.50	12,10	14.60	2.00	444,58	448,59
10	216	0.50	0.058	202	11	140	134	7.70	7.20	7.43	216	210	2	1	0.38	1.01	0,44	0.98	0.20	1.20	0.30	3,50	4800	٥	5	0	65	2.50	11,25	13,75	2.00	421.89	423,89
14	332		0.059	213		l	٠.,	7.99	7.30	7.38		ا مده	,		0,31	1.02	0,43	0.08	0.20	1.10	0.20	3,60	4700		5	0	65 65	2.50	11,59	14.09	2.00	431.63	433.63
16	314 271		0.055	222 172	-4-	152	140	7.81	7.23 7.31	7.35 7.45	222	218	2		0.35	1.02	0.46	1.00	0.20	1.30	0.20	3.40	1700	1 8	5	<del></del>	65	2.50	11.05	13.55 13.63	2.00	412.15	399.21 414.15
17	280		0.058	109	1	102	] """	8.00	7.40		1		`	' '	0.35	1.04	0.27	0.98	0.20	1.00	0.20	3.70	1,00	1 "	1	ب ا	64	2.50	11.41	13,91	2.00	422.20	424.20
18	208		0.058	90			Ì.	8.00	7.40	7.40	ĺ	l	Į i	į	0.32		0.25	1.03	0.10	1.70	0.30	3.50	1				65	2,50	10.74	13.24	2,00	392.26	394.26
19	188	1.80	0.055	72	[	{	ĺ	7.80	7.32	7.53		Į		l	1		0.29	0.41	0.10	1,70	1.80	3,10	1100	[ 0	5	. 0	65	2.50	11.11	13.61	2.00	423,71	425,71
20	164		0.050	76	0	162	150	7.62	7 34	7.37	242	248			0.36	1.02	0.20	0.03	0.20	1.80	3,50	3.70					66	2.50	12.04	14.54	2,00	440.98	442,96
21	159		0.049	76	0	166	154	7.88	7.34	7.39	254	256	2	1	0,32	1.05	0,25	0,04	0.20	1,90	3.20	3.50	-00	1 0	5	0	68	2,50	14.03 9,51	16,53	2.00	505.53 339.53	507.53 341.53
22 23	155 131		0.050 0.051	71 81	10	170	158	7.25 7.92	7.36	7.38	254 254	254 248	2 2	1 7	0.33	1.03	0.23	0.04	0.20	1.80	3,30	3,50	500	1 6	5	ä	68 68	2.50	9.59	12.09	2,00	337.16	339.16
24	110		0.051	69	} "	100	130	0.20	7.30		1	1 270	1 *	1	0.33	1.03		0.07	0.20	1.80	3.30	3,30	ſ	}	•	} -	-66	2.50	10,00	12.50	2,00	333.11	335,11
25	105		0.050	. 6Q_		L	L	8.20	7.30	7.40	L			Ĺ	0,31	1.05	0.27	0.05	0.20	1.90	3,30	3.40	l	L	<u> </u>		88	2.50	10.26	12.75	2:00	371.09	373.09
26	100		0.048	70	[	[	[	B.20	7.30	3 3 4 7 7		[			0,28	1.03	0.27	0.05	0.20	1.80	3,20	3,20		[			66	2,50	9.80	12.30	2.00	305.08	387.06
27	96		0,050	82	8	164	150	7.97	7.34	7.41	238	235	3	1	0.31	1.03	0.26	0.08	0.20	1.60	3.10	3,20	700	1 0	5	0	67	2.50	8.82	11.12	2.00	306.40	308.40
28	113		0.054	84 77	12	180	148	7.94	7.34 7.32	7,31 7,37	236 236	236	3	] ]	0,34	0.97	0.28	0.07	0.20	1.70	3.10	3,10	1900	1 2	5	0	68 68	2.50	8,84 10,08	11.34	2.00	300,11	362.11
29 30	7.9	1,90	0,058	85	ĺ	164	150	7.98			238	238	3	1	0.28	0.97	0.26	0.05	0.20	180	3.20	3.40	300		5	ă	69	2.50	11,35	13.85	2.00	402.34	404.34
31	74		0.080	62	ľ	, "	1	8.20			1		1		0.25		0.26	0.08	0.20	1.70	3.20	3.20	1 -00	) "	1	1	70	2,50	10.62	13:12	2.00	395.03	397,03
TOTAL																								۵	100	0							
AVE	187	0.97	0.058	118		157	148	7.93	7,32	7,42	230	227	2		0.02	1.04	0.34	0.61	0.19	144	1,40	3.30	2628		5	ø	0.5	<u> </u>	10.50	13.00	<u> </u>	385.80	287.60
MÁX	584	2.00	0.077	292	15	174	158	R.25	7,47	7.50	251	255	3	<u> </u>	0.38	1.41	0,50	,05	0.30	1.9G	3,50	3,70	847,0		- 5	_0_	70		14.63	18.53	<u> </u>	505.53	507.53
MIN.	55	0.20	0.049	61		134	120	7,29.	7,20	7.20	202	194	2		0.24	0.90	0.20	6,03	0.10	0.00	0.20	3,10	306		- 6		- 60		7.54	10.04	<b> </b>	287.18	254.18
COUNT	<u> </u>	i:			i	l	<u> </u>	1	L	<u> </u>	1	1	L		1	<u> </u>	1	<u> </u>		:		{	j i	}: :	<b>.</b>	1			<b>.</b>	1.	}	i	ſ

Wayne Found

#### SUPERPULSATOR PLANT

ILLINOIS-AMERICAN WATER COMPANY/ALTON DISTRICT FACILITY No. 118-5150

June-03

- 1								PHYS	CAL - C	HEMICA	LANALY	819												HCTERKA						CT VA	LUES		, ,
ſ	ΤĽ	TIONES		COL (CU APP		AĽKAL (PP			pH UNITE	`	HARD		30	OR		WIDE .		AINO ANN		RESIDU			ادام	NT.	DISTRY	STEN		Remov.	Inect.	Totel Reduct	Remov.	)nect.	Redu
πE	RAW	TF.	EFF	RAW	EFF	AIO RAW	AAD EFF	RAW	1F	EFF	RAW	EFF	RAW	EFF	RAW	EFF.	RAW	EFF	FR-CL? SET	TL-CL2	FA-CL2 EFF	TL-CL2	HF/100mm. RAW	MF/100mX EFF	No. SAMPLES	pt. ->}	TEMP F	Credit Glardia	Cradit Gierdia	Credit Glardin	Credit Viruses	Credit Viruses	Virus
╌┤	72	1.20	0.050	66		-		8,30	7.10	7.50				<b></b>	0.25	0.94	0.25	0.05	0.20	1,90	3.40	3,50	<del>                                     </del>				69	2,50	10,63	13/13	2.00	401.58	403
2 1			0.081	78	8	168	152	B.05	7.38	7.80	240	230		ĺ	0.32	0.98	0.27	0.50	0.10	1.70	1,50	3,10	900	0	5	0	68	2,50	11.03	13,53	2,00	435.50	437
3 ∤	60		0.055	60	5	168	154	80,8	7.37	7.82	240	238	2	1	0.31	0.96	0.28	1.02	0.10	1,90	0.20	3,50	1200	0	5	٥	67	2.50	10.39	12,69	2.00	409.77	41
4	81		0.057	7£	3 .	176	160	8.07	7,37		246	240	2	1	0.34	0.97	0,34	1.05	0,30	1.90	0.20	3.50	900	0	5	0	- 66	2.50	12,20	14.70	2.00	471,29	47
	53		0.083	90	3	192	170	8.09	7,38	7.53	252	250	2	1-	0,32	1.31	0.32	1.07	0.30	2.00	0.20	3,30	800	1_0_	5	<u> </u>	. 68	2.50	10,06	12.58	2.00	386.42	38
8	45		0.071	85	0	172	162	8,15	7.46	7.70	242	230	2	1	0.31	1.01	0.30	0.98	0.23	1.90	0.18	3,30	700	0	8	0	68	2.50	10.39	12,89	2.00	422.10	42
7 }	44		0.072	77		۱ ۱	i	8,36	7.50		۱ '	1	1	1	0.30	101	0.26	101	0.10	2.10	0.20	3.40	1	1	\ '		67	2 50	9.33	11,83	2.00	387.50	38
, ,	48		0.075	98				8.30	7.50		١			١.	0.34	1.04	0.26	0,98	0.20	2.10	0.30	3,30		١.	1 .	١.	69	2.50	9,57	12.07	2.00	373.56	
	39		0,078	94 70	. 8 16	176 176	168 188	8,15	7.48	7.81	244	242	3	1	0.30	1.01	0.26	0.97	0.10	1.70 1.70	0.30	3.30	1600	0	5	0	69 70	2,50 2,50	9,11 9,85	11,61	2.00	357.42 381.14	
?	37		0.072	68	70	172	164	8.20	7.45		242	244	3		0.34	100	0.20	0.91	0.20	1.90	0,30	3.30	600	1 0	5	8	70	2,50	8,39	11.89	2.00	366.61	36
1 }	38		0.073	65	7	188	170	8.22	7.52		260	248	3	1 1	0.37	1.02		0.94	0.10	1.90	0.20	3,40	1200	1 6	5	ŏ	70	2,50	10,89	13,19	2.00	419,72	
3	87		0.076	108	ě	176	172	8.19	7.49		238	248	3		0.32	1.05		0.94	0.20	1.90	0.20	2.30	1900	1 6	5	ı	71	2.50	9,74	12.24	2.00	383.81	3
4	71		0.071	123	٦	110	""	B.30	7.40		230	240	} ~	' '	0.38	1 01	0.27	1.04	0.20	1.90	0.30	3,50	1,900	١٠	1		72	2.50	12,89	15.38	2.00	509.55	
	72		0.069	121	l	l	ł	8.20	7.30		i	ľ	j	l	0.33	0.99		0.99	0.20	1.80	0.30	3.50	1	.]	ļ	ľ	73	2.50	13,50	16.00	2.00	515.88	
-	61	2.40	0.066	118	4	168	150	7 99	7.30		244	232	2	1	0.38	1.02	A 17.7	1.02	0.20	170	0.20	3.20	1200	6	5	a	74	2.50	12,18	14.69	2.00	468.73	
7	48		0.067	91	) '	172	180	8.14	7.39		244	242	2	ìà	0.35	100	1	1.01	0.30	1.90	0.30	3,40	1100	à	5	0	76	2.50	13,15	15.65	2.00	504.87	
,	51		0.064	94	8	180	156	8.16	7.43	3	244	240	2	1	0.20	0.98	0.29	0.98	0.20	1.90	0.20	3,40	400	0	5	ŏ	77	2,50	12.68	15.18	2.00	504.18	15
. I	42		0.060	105	Ιā	170	168	8.23	7.49	1 1 1 - 1	244	244	2	1 1	0.38	0.99	0.30	1.00	0.20	1,90	0.20	3.40	200	اة	5	0	78	2,50	14.18	18.66	2.00	569.16	15
	43		0.058	84	7	174	184	8.13	7.37		252	248	2	1	0.37	96.0		1.02	0.10	1.50	0.20	3.30	1500	1 6	_	ļ	78	2.50	12.98	15.48	2.00	506,35	
1	43	2 40	0.083	74		1		8.40	7.50	7.50		l		!	0,31	1.03	0.23	1.01	0.20	1.80	0.20	3.40	1		1		78	2.50	15.23	17.73	2.00	585.85	5
22	42	1,20	990.0	61	Ì	1		1	1	1	1		l	ţ	0.28	1.03	0.18	0.97	0,20	1,90	0,20	3,40	ŀ	1		ł	76	2,50	14.17	16,67	2.00	540.60	5
73 I	37	1,00	0.068	73	0	180	170	8.29	7.50	7.70	254	250	2	1 1	0.34	1.02	0.20	1,02	0.20	1,90	0.20	3.30	3300	0	5	0	79	2.50	10.53	13.03	2.00	428.15	
м .	34	1.30	Q.069	74	0	176	168	8.37	7,53			252	2	1	0.32	1.00	0.18	0.97	0.20	1.80	0,20	3.30	800	0	5	٥	78	2.50	9.97	12.47	2.00	414.55	
5	32	2,70	G.069	82	8	174	170	8,41	7.56			254	2	1.1.	0.34	1.00		1.03	0.20	1,90	0,20	3,30	1100	0		<u> </u>	. 78	2.50	12,05	14.55	2.00	501.84	
26	36	0.60	0.075	81	5	170	156	8.34	7.49		240	230	2	1 1	0.36	0.99	0.25	1,00	0.10	1.90	0.20	3.40	3000	0	5	0	79	2.50	13,66	16.16	2.00	552.74	
77	45	0.80	0.074	94	12	158	142		7,48		230	224	2	1	0,34	1.04	0.32	0.97	0,20	1.80	0.20	3.50	2400	0	5	0	78	2,50	15.51	18,01	2.00	638.87	6
28	64	1.60	0.089	100	ľ	1	1	8,22	7.40		]	i	ŀ	l	0.36	1.01	0.26	0,95	0.20	1,90	0.20	3.40	1	1		1	78 78	2.50	16.20 17.38	19.68	2.00	639.30 665.29	
19	58 42	1.90	0.058 0.055	105 84		174	180	6.29 8.22	7,40		1 200	234	1	İ	0.33	0.93		1.00	0.20	1.80	0.20	3.40	1400		5	ه ا	79	2,50	18.32	18.82	2.00	618.02	
30	1 *2	1.50	0.000		12	1 "	1 ,00	10.22	1000	1	2.50	} ~~~	ł	1	0.31	10,50	1023	1341	0.10	1,00	0,25	3.50	1100	10	1 3	١ ٠	10	2.50	10.32	2.50	2.00	0 (0,02	17
TAL :			<u> </u>			<del>                                     </del>		┼┈		<del>                                     </del>				1			1		_				†		103	a	<u> </u>	1		2.00			۲
VE.	50	1.42	6,967	67	5	173	102	8.22	7,43	7.80	245	241	7	<del>                                     </del>	0.33	1.00	0.28	0.95	0.18	1,98	0.37	3.38	1262		6	,	7.3	1	12,17	14,27		478.91	1
X.	95	1	0,078	122	16	168	172	8,41	7.55	1	1	254	1	,	0.37	1.95	1		0.30	2.10	3.40	3.50	3300		1		79	1	17,38	19.58		505.28	١,
IN.	32	0.60		80	,	158	142				T -		2	,	0.75	0.93	1		0.10	1.60	0.10	3.10	200		5	ä.	98		9.11	2.50		357.42	Т
		1			<del></del>	1	1	1 1	1	1	- T-	1	† <del></del>	1	1,3,00	T	1	1		<del> </del>		1	1	<del>                                     </del>	<del>                                     </del>	1	<del> </del>	<del> </del> -		:: <u></u>		7,	7-

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#### SUPERPULSATOR PLANT

RLINOIS-AMERICAN WATER COMPANY / ALTON DISTRICT FACILITY No. 119-6150

Juny-G

								PHYS	CAL - CI	HEMICA	L ANAL'	/8IB							······································					ACTERIO	OGICAL		]			CT VA	('nës		
	71	URBIDI UTUI	Ŷ	COLARE	LOR PARENTI	ALKA!			PH (UNITE)			NESS 44)	00	CIR SHI)		RICE.		AMO AM		KESUE (PT			PLA	NT:	DIST SY	STEM	1	Remov.	thect.	Total Reduct	Remov.	Inset	Total Redupt
	1				-	MO	MO		•		- "								FR-CLIX	TL-CL2	FR-CL2	11-017			No.	*	TEMP	Credit	Credit	Credit	Credit	Credit	Credit
DATE	RAW	ΤĒ	EFF	RAW	EFF	RAW	EFF	PLAW	ŤF	EFF"	RAW	EFF	RAW	EFF	RAW	EFF	RAW	EFF	SET	SET	EFF	EFF	RAW	EFF	SAMPLES	>1	F	Gierdia	Glardia	Glerdia	Viruses	Viruses .	Viruses
1	43	1.60	0.050	72	6	170	160	8.18	7.42	7.48	230	238	3	1 -	0.35	0.97	0.24	0.99	0:20	1.70	0.10	3.30	2000	a	- 5	Q	80	2.50	15.56	18.08	2.00	592,04	594.04
2	57	1.60	0,058	103	2	172	162	8,09	7,39	7,48	236	236	2	1	0.31	1.02	0.28	1.00	0.10	1,60	0.10	3.20	500	0	5	C	80	2.50	18,49	18,99	2.00	620.44	622,44
1 3	89		0.059	108	3	175	150	8.00	7.41	7.43	234	220	3	. 1	0.28	0.93	0.24	0.64	0.10	1.50	0.10	3.30	<b>\</b>	<b>i</b>	1 1		81	2.50	18.60	19.10	2.00	618.45	820.45
1 1	50 42	1,90	0.058	78 77	l			8,21 8,24	7.40	7.59			Į.		0.30	0.94	0.20	1.05	0,20	1.60	0,20	3.30		1			62 83	2,50 2,50	15,19 15,94	17.59 19.44	2.00	593.07 658.14	595,07 660,14
-	37	1 50	0.057	70				8.35	7.40	7.56					0 32	0.84	0.24	1.02	0.20	170	0.20	3.20		<del> </del>			84	2.50	15.66	18.35	2.00	614,17	816 17
1 7	40	1.30	0.059	80	6	162	150	B.07	7.42	7,65	224	222	2	1	0.32	0.98	0.22	1.01	0.20	1.70	0.20	3.20	200	lo	5	0	85	2:50	18:10	20.60	2.00	699.45	701.45
8	38	1.40	0.062	91	12	164	156	8,21	7.58	7.54	228	222	2	1	0.38	0.99	0.22	1.02	0,10	1.60	0.20	3.30	200	0	4	1	85	2.50	16,39	18,89	2.00	629,62	831.62
9	43	1.90	0,059	79	5	166	154	8.16	7.44	7.53	230	220	2	1	0.31	1.04	0.24	1.05	0.10	1.70	0.20	3.30	300	0	5	٥	86	2,50	17.84	20.34	2.00	687.18	689.18
10	?9	1.20	0.082	110	5_	164	156	8.17	7.44	7.61	228	228	2	1_	0.31	1.07	0:30	0:94	0.10	1.60	0.20	3.20	2400	٥	- 8	0	88	2.50	16.89	19.49	2.00	671.08	673.06
11	98	1.90	0.068	103	8	166	154	8.24	7,51	7.64	232	224	2	.1	0.38	1,13	0.24	1.02	0,10	1.70	0.20	3.30	200	0	5	0	84	2,50	18,18	18.66	2.00	646.16	848.16
12	146 183	1.80	0.072	138	İ	1	ł	8.05	7.40	7,53	ł	İ	i	Ì	0.40	1 09	0.29	0.97	0.20	1.40	0.10	3,40		l			83	2:50	18.41	20,91	2.00	713.75	715.75
13 14	194	2.70	0.063	158	11	134	128	7.60	7.40	7.28	190	188	2	٠, ا	0.42	1.03	0.28	0.98	0.10	1,30	0,20	3.40	1100			,	82	2.50 2.50	19.88 15.84	21.38	2,00	688.13 594.16	670.13 596.16
15	144	2.80	0:059	151	10	138	128	7.68	7.25	7.32	200	193	5		0.34	1 03	0.25	0.97	0.10	1.40	0.20	3,40	1 1100	0	5	0	80	2.50	14.51	18.34	2.00	514,92	518.82
10	120	3.80	0.056	126	8	146	134	7.84	7.26	7.38	230	222	2	1	0.39	7 11	0.29	0.99	0.20	1.60	0.20	3.20	1100	0	5		80	2.50	14.42	16.92	2.00	523.51	525.51
17	108	3.20	0,057	102	12	154	144	7.72	7.29	7.42	222	212	2	1	0.40	1.11	0.30	1.10	0.20	1.90	0.10	3,40	800	ŏ	5	Ō	81	2.50	18 49	18.99	2.00	808.74	610.74
18	93	1.10	0,058	112	11	158	146	7.88	7.28	7.51	226	222	2	1	0.38	1.12	0.29	0,94	0.20	1.70	0.20	3.30	400	0	5	0	82	2,50	17.38	19.88	2.00	666,00	668.00
19	123	1.90	0.057	113	Į.	1	Į.	7.88	7,31	7.53	l	ļ	ł	l	0.48	1.01	0.26	0.98	0,20	1,60	0.20	3.40	į .	l			80	2.50	17,86	20.38	2,00	696,35	698,35
20	216	1.70		188	<u> </u>	<b></b>	<u> </u>	7,80	7.20		<u> </u>	<u> </u>	<u> </u>	Ļ	0.27	1 05	0.32	6.93	0,10	1.50	0.20	3.40	<u> </u>	<u>.                                    </u>		L	80	2,50	17.21	19,71	2.00	680.49	882,49
21	161			157	4	140	128	7.79	7.23	7,48	198	190	2	1	0.35	1.08		1,01	0.20	1.50	0.10	3.40	3800	0	5	0	60	2.50	15:51	19.11	2.00	621.29	623.29
22	85	2.40	0.062	120 107	0	144	142	7.54	7.27	7.43	208	200	2	1 1	0.37	1.12		1,00	0.20	1,60	0.20	3.40	800	0	5	0	81	2.50	17.10	18,60	2.00	631.95	633,95
23	83	1.40	0.086	86	\	152	140	7.89 7.93	7.29	7.48	214	208 214	2	1	0.34	1.11   1.07	0.27	1.00	0:10	1.70	0.10	3.40	1000	0	5	0	81	2.50	17.53 15.20	20,03 17,70	2,00	668,33 574,26	578.28
25	53	0.90	0.069	94	l é	154	142	7.94	7.38		220	218	5	1 ;	0.32	1.15	0.24	1,01	0.10	1,70	0,10	3.20	1200	,	5	١،	81	2.50	16.74	19.24	2.00	536.49	638.49
26	54	150	0.070	95	† <u>~</u>	1-1	170	8.07	7,30	7.54	144		<del>- ~</del>	<del>                                     </del>	0.34	1 13	0.22	0.96	0.10	1.70	0.20	3.40	1200	1			80	2.50	14.98	17.48	2.00	576.56	580.88
27	58	1.10	0.072	101	[		l	B,09	7.30	7.54	!		1		0,37	1.05	0.25	0.97	0,10	1.70	0.20	3.30	1	l	[		80	2.50	15.69	19.39	2.00	853.33	855.33
28	50	0.40	0.076	100	2	152	144	8.17	7.52	7.47	216	210	2	1	0.32	1.09	0,28	0.92	0.20	1.70	0,20	3.40	800	0	5	0	81	2,50	18,95	19.45	2.00	636,83	638,83
29	42	1.00	0.085	84	9	160	146	8.05	7.37	7.47	222	214	2	1	0.33	1.08	0.22	0.99	0,20	1.60	0.20	3.30	300	0	5	0	80	2.50	18,16	18:66	2,00	611.52	613.52
30	43	1.00	0.051	82	10	158	148	8,16	7.36	7.59	222	218	2	1	0.35	1.10	0.19	0.91	0,20	1.60	0.20	3.30	500	0	] 5	0	60	2.50	16,58	19.08	2.00	654.48	656.46
31	33	0.70	0.085	82	2	158	150	8,13	7.42	7.01	218	214	2	1	0.34	1.09	0.23	0.95	0,20	1:60	0.20	3,30	100	<u> </u>	6	0	80	2.50	14.61	17.11	2.00	577,55	579.55
TOTAL	<u> </u>					<u> </u>				<u> </u>				L.,				L		L	<u> </u>	<u>L</u>	L	0	107	,	<u> </u>		<u></u>	<u> </u>		L	
AVE	85	1.87	3,052	108	7	158	146	8.03	7,36	7.50	220	215	2	1	0.34	1.05	0.26	S.96	0.15	1.61	0.17	3.32	905		5		12		16,53	19.03		529,64	631.64
MAX	216	3,60	9.076	1008	12	175	162	8.35	7.58	7.64	238	238	_3_	1_	0.40	1.15	0.35	1.10	0.20	1.90	0.20	3.50	3600				80	1	18.68	21.38		713.75	715.75
MIN.	33	0.40	0.051	ro		134	128	7,72	7.20	7.20	190	188	2		0.27	0.92	10,19	0.01	0.10	1,30	0.10	3,10	100		4	c	25		14.42	16.92		514.92	516.92
COLMT	<u> </u>	<u>L</u> _	1	<u> </u>			<u> </u>	<u> </u>		<u> </u>	1				<u>L.,</u>		<u> </u>																

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#### SUPERPULSATOR PLANT

ILLINOIS-AMERICAN WATER COMPANY / ALTON DISTRICT FACILITY No. 110-5150 August-03

								PHYS	CAL - C	HEMICA	L ANALY	618										,	.6	ACTERIOL	OGICAL			<u> </u>	<del></del>	CT VA	ILUES:		
	π	URBIDIT	Y	COL		ALKA			Hq.		HARD			OR: ON)	FLUC		AMM (1)	ONIA .		RESIDL	AL CL2		PLA	MÌ	DISTAY	STEM		Remov.	inact.	Total Reduct	Remov.	lnart.	Reduct.
DATE	RAW	TF	EFF	RAW	EFF	RAW	NO EFF	RAW	1F	EFF	RAW	£FF	RAW	EFF.	RAW	EFF	RAW	EFF	FR-CL2 8ET	TL-CL2 SET	FR-CL2 EFF	EFF EFF	RAW	MF/160mL EFF	No. SAMPLES	>1	TEMP F	Glandia	Credit Glardie	Credit Glardia	Credit Viruses	Credit Viruses	Credit Viruses
1	35		0.079	60	5	160	150	7.90	7.46	7.81	218	212	2	1	0.34	1.10	0.22	0.65	0.20	1.70		3.20	700	ο	Б	Ð	81 81	2.50	17.40 17.45	19.90 19.95	2.00 2.00	684.26 687.95	686.26 689.95
2 3	36 31		0,082 0.078	79 71		i		7,90 8,10	7.50 7.50	7.50 7.70					0,34	1.11	0.21	0.92 0.98	0.20 0.20	1.60	0.10	3,30					81	2.50	15,82	18.32	2.00	652,19	654.19
4	25	1.50	0.069	73	0	162	158	8,08	7,50	7.89	218	218	2	1	0.32	1.13	0.19	0.88	0.20	1,70	0.20	3.30	900	0	5	۵	81	2.50	15,91	18,41	2.00	647,17	649.17
5	28 27	1.00	0.067	74 69	11	182 180	150 162	5.24 5.36	7,51	7.56 7.75	220	210	2-2	1-1-	0.32	1.10	0.19	1.03	0.20	1.90	0.20	3.40	1400	0	5 5	0	62	2.50	15,65 16,62	18.15	2.00	627,47 691.38	629.47 693.38
7	26	1.00	0.002	73	14	150	144	B.46	7.60	7.85	214	210	2	1	0.37	1.14	0.21	1.03	0.20	1.70	0.20	3.20	800	Č	5	ő	62	2.50	14,42	16.92	2,00	618,35	820,35
	2B		0,080	75	15	160	144	8.52	7.62	7.71	218	212	2	1	0,35	1.11	0.20	1.04	0,20	1,60		3.20	400	٥	5	0	82	2.50	14,93	17,43	2.00	608.18	610,16
10	28 28		0.081	76 . 77				7.80	7.53 7.55	7.81. 7.75			l		0.24	1.10	0.20	1.00	0.20	1.70	0.10	3.20		1			82	2.50	14,58 16,15	17,08 18,65	2.00	613.72 669.20	615.72 671.20
19	25	0.80	0.081	85	8	158	148	8.81	7,50	7.79	206	220	2	1	0,34	1.07	0.23	1,00	0.20	1.60	0.20	3,30	700	0	5	ō	82	2.50	15.18	17.56	2.00	636,54	638.54
12	25		0.082	107	9	152	148	8.50	7.5B	7.78	204	204	2	1 1	0,25		0.25		0.20	1.70	0.20	3.20	500	0	5	0	82	2.50	15.95	18,45	2.00	660.15	652.15
13 14	22		0.079	115 108	18	158	148	8.52 8.48	7,54	7.74	212	208	2 2	1 1	0.32	1,13 1,09	0.28	0,98	0.20	1,70	0.20	3,40	200 400	0	4	0	81 81	2,50 2.50	18.50 15.77	19,00 18,27	2.00	685,91 663,19	687.91
15	21	0,90	0.072	113	3	175	150	8,55	7.49	7.55	210	216		<u>L.</u>	927	1,07	0.29	1.00	0.20	1.60	0.20	3.20	900	- 6	5	0	81	2.50	10.03	12.59	2.00	388,34	388.34
15 17	23	0.90	0.087	114	1			8,52 8,51	7,40	8,40	1		l		0.27	1,17 1,18	0.28	1.00	0.20	1.70	0.30	3.60		1	1		83 84	2.50	10.69 12.25	13:19 14.75	2.00	547:60 575.52	549.60 577.52
18	22	1.30	0.081	101	4	152	150	8.73	7.48	7.98	202	200	2	1	0.32	1.09	0.28	1.05	0.30	1,80	0.20	3,40	500		5	o	84	2.50	11.17	13.67	2.00	498.54	500.54
19	22	1:10	0.082	68	٥	156	144	3.68	7.51	8.35	208	202	2	1	0,32	1.11	0.20		0.20	2.20	0.20	3.50	200	0	5	0	B4	2,50	11,87	14.37	2,00	604.68	606.68
20	19 20	0.90	0.083	62	8	178	150	8.86	7.57	8.28	202	194	$\frac{2}{2}$	┝╬	0.28	1.05	0.20	0.95	0.20	2.90	0.20	3.30	300	0	5	0	84	2.50	13.17	15.67	2.00	647.08	649.08
22	21	1.70	0.084	70	5	150	148	8.84	7.55	8.33	198	198	2	1	0.29	1,04	0.28	0.96	0.20	2.70	0.20	3.40	900	ŏ	5	ő	66	2,50	13,77	18.27	2.00	68,88	690.88
23	22	2.00	0.084	63		1		8.78	7,80	8.22	İ			l	0.32	1.08	0.18	0.96	0.20	2.70	0.30	3,50			1		84	2.50	15,44	17.94	2.00	751.23	753.23
24	23 23	1.30	0.087 0.084	66 60	0	154	154	8.82 B.88	7,80	8.30	202	200	l	İ	0.33	1,08	0.20	0.94	0.30	2.70	0,30	3,80	100	a	5	م ا	85 84	2.50	15.51 13.31	18,01 15,81	2.00	768.25 659.56	770.25
28	20	1.40	G 081	69	5	152	150	8.67	7,81	8.40	196	194	2	1	0.30	1.08	0,18	0.92	0.30	2.40	0.30	3,50	200	ō	5	ō	85	2.50	12.91	15,41	2.00	680.28	562.26
27	20 19	1.30	0.077	70 62	0	148	146	8.51 8.51	7.63 7.55	8.40	190	184	2 2	1	0.24	1.05	0.23	0.06	0.30	2.50	0.20	3.30	100	0	5 5	٥	85	2.50	13.73 1,50	16.23 4.00	2.00	703.18 3,99	705.18 5,99
20	20	0.70	0.089	63		152	146	8.56	7.51	8.26	194	188	2	1	0.30	1,05	0.17	0.84	0.20	2.50	0.30	3,20	600	l ö	5	Ö	85 85	2.50	2,19	4.69	2.00	4,92	6.92
202	20	0.60	0.071	59		1	ŀ	8.40	7,50	8,00	1	ľ		1	0.31	1.13	0.28		0.40	2.80	0.30	3,20	į	1	1		84	2.50	2.34	4,84	2.00	5.28	7.28
31	20	1.00	0.068	52		┼	-	8.40	7.50	7.90	-	-	-		0.32	1.10	0.22	0.93	0.30	2,60	0.20	3.10					83	2,50	2.07	4.57	2,00	5.03	7.03
TOTAL			<b> </b>		<u> </u>	<u> </u>	ļ	<u> </u>	ļ	ļ		ļ		<u> </u>	1	<u> </u>	<u> </u>	<u> </u>	1	<u> </u>	L			0	104	0	<u> </u>	<u> </u>	ļ		<u> </u>		<u> </u>
AVE.	24	1.10	0.079	70	5	157	149	0.42	7.54	7.85	207	204	1.	1	0.31	1.10	0.23	0.97	0.23	2.0B	0,22	3,34	586		5	0	83		12.82	15.32		557.81	559.61
MAX	_38	2.70	0.001	115	10	178	1072	6.82	7.68	8.40	222	222	2_	<u> </u>	0:37	1.18	0.31	1:05	9.40	3.00	0,30	3,60	1400		5		88	<del> </del> -	17.45	19,95	ļ	788.26	770.25
MIN	19	0.40	0.087	52	0	148	144	7.60	7.40	7.50	190	184	1-2-	1_1_	0.24	1,04	0.17	0.87	0.20	1:40	0,10	3,00	100		4		51	<u> </u>	1,50	4.00	ļ	1.00	5.99
COUNT		l					<u></u>	<u></u>	<u> </u>	1	<u> </u>		l	<u> </u>	<u> </u>	L	L	l			L	L	<u> </u>	l	L .	<u> </u>	1	1 _		L	L	L	1

Juny Joury # 8861

#### SUPERPULSATOR PLANT

ILLINOIS-AMERICAN WATER COMPANY / ALTON DISTRICT FACILITY No. 119-5150 Raniamber 113

[								PHYSI	CÁL - CI	HEMICA	ANALY	á:S												MOTERIOL	OGICAL					CT VA	LLES		
	Τì	URBIDIT (NTU)		CO APP		ALKAL (PP			pH (UNITS)		HARD		60 -{T0		FLUC (P)		AAIN (P)	ONIA M		R588X (Pf	al Cli		PLA		DIST 8Y	STEM.		Remov.	trjitct.	Fota/ Raduct	Remov.	Inact	Total Reduct
DATE	RAW	ΤF	EFF.	RAW	EFF	RAW	MC EFF	RAW	1F	EFF	RAW	EFF	RAW	EF#	RAW	EFF	RAW	E.F.F	BET BET	SET	FR-GL2	TL-CL2 EFF	ME/100mL RAVV	MF/100mL EFF	No. SAMPLES	*1	TEMP	Credit Glandle	Gredit Glandis	Credit Glantila	Credit Viruses	Cradit Vittees	Credit Vicuses
	22 32	0.70	0.060	60 71	٥	160	162	8.32 8.21	7.45	8,08 7,98	209	210	2	1	0,33	1.10	0.21	0.94	0.30	2.40	D.30 D.30	3,20 3,40	1800	0	5	0	82 81	2.50 2.50	1,85 1,77	4.35 4,27	2.00 2.00	4.81 4.78	6.84 6.78
j . 1	48	0.70	0.088	117	3	150	142	7.98	7.29	7.84	186	186	3	1	0,31	1,08	0.28	0.91	0.30	2,40	0.30	3,40	2600	Ď	5	Q	78	2.50	1.39	3,89	2.00	4.31	5.31
4	54		0.070	168		140	144	7.84	7.20	7.87	182	180			0.29	1,10	0.33	0.89	0.20	2.10	0.30	3.20	2100	0	5	٥	78	2.50	1.24	3,74	2.00	4.12	8,12
	70		0.075	201		126	122	7.77	7.12	7,80	150	\$52	_ 2	1	0,28	1.10	0.44	0.98	0.20	2,40	0.30	2.90 3.40	2200	0	- 5	ţ.	74	2,50	1.12	3.62	2.00	3,95 4,06	5.95 6.06
4	53		0.069	139				8.10	7.20	7.60 7.60					0.29	1.05	0.39	0.98	0.30	2,20	D.30 0.30	3.40		į	i 1		74 75	2.50	1,18	3,81	2.00 2.00	4.27	6.27
;	37		0.064	91	3	132	134	7 84	7 17	7.98	158	174	3	4	0.33	1.09	0.24	0.99	0.20	2.30	0.30	3.40	2500	٥	5	c	7.5	2.50	1.18	3.66	2.00	4.01	6.01
ا ہا	31		0,065	61	. 5	134	132	7,86	7 23		170	168	3	1	0,32	1.07	0.23	0.96	0,20	2.10	0,30	3.20	100	ō	5	Ü	75	2.50	1.03	3.53	2.00	3,77	5.77
10	27	2,00	0.063	82	9	138	138	3.15	7.28	8.19	178	178	. 3	_1_	0.34	1,12	0.21	1.08	0,20	2,10	0.30	3.80	1200	0	5	0	78	2,50	1,19	3,69	2.00	4.04	8.04
15	28		0,083	68	2	140	142	7.97	7.30	8.25	182	182	3	1	0.28	1.05	0,18	1.00	0.20	2,20	0,20	3.80	1800	. 0	5	D.	76	2:50	2,70	5.20	2.00	88,96	90.98
12	25		0.085	68	5	142	144	8,07	7.30		182	182	3	1	0.29	1,09	0.19	0.98	0.20	2.40	0.20	3,60	400	٥	5	0	77	2,50	3,05	5,55	2.00 2.00	90.24	92.24 133.35
13	23		0.085	80 67	)	1	· '	8.25 8.28	7,40	8.20 8.11			1 '		0.31	1.08	0.25	0,97	0.20	2,40	0.20	3.70	1	1	1	Ì	77	2,50	3,15	6.27 5.65	2:00	98.32	98.32
15	25 27	1.20	0.067	63	٥	144	148	8.24	7.35	8.28	184	184	3.	,	0.26	1 10	0.23	0.93	0.20	24.00	0.30	3.30	100	0	5	ο	75	2.50	3.20	5.70	2.00	119.18	121.18
18	29		0.071	70	11	152	154	8.31	7.43	B.57	188	190	3	1	0.31	1,10	0.19	1.03	0.20	2.30	0.20	3,30	100	0	5	ō	75	2.50	2,88	5,36	2.00	109.23	111,23
17	28		0.080	69	1	154	150	6.31	7.42	8.18	188	182	3	1	0.28	1,02	0,20	0.99	0.20	2.40	0.20	3.30	200	0.	5	Q	75	2,50	3,35	5,85	2.00	114.85	116,65
18	26		0.078	69	5	152	152	8.30	7.40	8.32	186	184	-3	1	0.25	1,08	0.17	0,95	0.30	2.40	0.17	0.98	500	0	5	8	75	2.50	2.74	5.24	2.00	95.26	97.26
19	24		0,078	64	-0	150	150	8.39	7.40	8.26	180	176	3	1	0:29	1.07	0.17	1.00	0.10	2.10	0.20	3.10	600	0	] 5 ]	Q	75	2.50	2.78	5.26	2.00	96.27	98.27
20	25		0.077	60	<u> </u>	<b> </b>	<u> </u>	8.60	7.40				]	<u> </u>	0.29	1.14	0.21	1.00	0.20	2.40	0.20	3.20	<del> </del>	<u> </u>	<b> </b>		74	2,50	2.51	5.11	2,00	87.59	89.59
21	25		0.081	65	0	166	180	8.70	7.40	8.30 8.33	212	202	3	١.	0.29	1.09	0.21	1.01	0.20	2.50	0.30	3.20	500	o.	s		73 73	2.50	2.75 2.72	5,25 5.22	2.00	96,49 64,40	98.49 96.40
22 23	23		0.070	64 59	11	162	180	8.47	7.44	8.29	202	200	3	;	0.34	1.00	0.17	0.99	0.20	2.40	0.20	3.30	500	n	5	1	72	2,50	2.80	5.30	2.00	93.60	95.50
24	21		0.001	- 60	ا ا	166	170	8.48	7.42	8.32	200	204	3	li	0.38	1.12	0.19	0.98	0.20	2.40	0.20	3.10	200	lõ	6	á	72	2.50	2.36	4.88	2.00	78,32	80.32
25	23	1.30	0.060	63	1	160	158	8.43	7.36	0.10	198	200	3		0.34	1.11	0.23	1.05	0.20	2.50	0.20	3,10	300	0	4	11_	72	2.50	2,67	5,17	2,00	88.27	98.27
26	19	1,80	0.061	59	8	160	160	8.43	7.36	8.07	200	202	3	1	0.35	1.17	0.18	0.97	0.20	2.50	0.20	3,30	1300	0	8	1	75	2.50	2.71	5.21	2.00	85,94	87.94
27	20	1.10	0.067	56	i	1	l	8,40	7.40	8.20				ĺ	0.25	1.01	0.18	0.86	0.30	2.80	0,30	3.50	l	1		٥	70	2,50	2.73	5.23	2.00	92,74	94.74
26 29	20 21	1.10	0.005	62 62	0	160	152	8.50	7.30	8,10	196	194	2	1	0.33	1.10	0.15	1.00	0.20	2.50	1.60	3,40 2,80	100		5	Q	87	2.50	2,75 3,15	5,25 5, <del>8</del> 5	2.00	87,79 112,34	89.79 114.34
30	19		0.055	66	1	162	150	8.41		8.01	208	198	2	,	0.28	1.14	0.07	0.04	0.20	2.40	3.20	3.40	900	0	5	0	67	2.50	9.33	11.83	2.00	415,07	417.07
31		} """	-1000		\	1	,	1	1	\		,	~			1	1								, "			2,50	1	2.50	2,00		2.00
TOTAL																								0	113	3							
AVE.	30	1.39	6,008	81	4	/150	149	8.25	7,34	4.12	180	187	3	1	0.31	1:10.	022	0,93	5.22	3,11	9.40	125	962	o	5	0	74		2.58	5 00		77.14	76.95
MAX	70	4.00	0.061	201	_11_	165	170	8.70	7.45	8.57	212.	210	3		0.34	1,17	044	1.00	0.30	24.00	1.20	3,60	2000	-		1	82		9,33	11,83		415.07	417.07
MIN.	19	0.60	0,055	58		124	124	7.77	7.12	7.60	150	152	2	1	0.25	1,01	0.07	0.04	0,10	2.10	0.17	0.96	100				57		1.03	2,50		3,77	2,90
COLUNT		L			L	L		L		L		L.,		L	1	1	<u></u>			L		L	<u> </u>	<u> </u>	<u>L</u>		<u> </u>	<u></u>					

H 8861

#### SUPERPULSATOR PLANT

ALINOIS AMERICAN WATER COMPANY / ALTON DISTRICT FACILITY No. 118-5150

October-03

1						<del></del> -		PHYS	ical - c	HEMICA	ANALY	818							<del></del>					ACTERIOL	OGICAL					CT VA	LUE8		
Ī	.11	TEGIEST (UTM)	Υ	COL		ALACAL (PE	WITY		pH (LIMITE	1	MARC	NESS Mi	CTC		FLUC	RIOE		CONTA			ML CLT		PLA	NT	DISTRY	8 TEM	1	Remov.	Inect	Total Reduct	Remov.	inect.	Reduct
DATE	RAW	17=	EFF	RAW	EFF	MO RAW	MO EFF	RAW	TF	EFF	RAW	EFF	RAW	EFF	RAW	EFF	RAW	EFF	FR-CL2 SET		FR-CL2 EFF	TL:CL:	MP/100mL RAW	MF/100mL EFF	No. BAMPLES	* >1	TEMP F	Credit Glardia	Credit Glardia	Credit Glandia	Credit Viruses	Credit Viruses	Credit Viruses
1	20	1.40	0.049	66	1	156	150	8.38	7.32		196	194	3	1	0.29	1.16	0.15	0.04	0.20	2.60	3,00	3.20	100	0	6	0	65	2,50	8.29	10,79	2.00	376:82	360.82
2	21		0.045	70	4	146	148	8.37	7.37	8.03	192	190	3	1	0.29	1.19	0,18	0,04	0.20	2.30	3.20	3,30	1600	0	5	٥	65	2.50	9.40	11.90	2.00	419,17	421.17
3	19 22		0.055 0.057	76 69	7	150	148	8.56	7.38	8.49	184	182	3	1	0.29	1.29	0.15	0.03	0.10	2,30	3.20 2.90	3.30	500	0	8	0	63 63	2,50	6.76 11.37	9.26 13.87	2.00	349.45 530.26	351.45 532.28
_ 5 ]	23		0.058	71		'		8.59	7.40	8.34	<u> </u>			L	0.32	1.19	0.20	0.08	0,20	2.50	3,10	3,40	i'				63	2.50	12.04	14,54	2.00	590,89	592.89
•	23	1.20	0.063	69	8	158	156	8,58	7.48	8.55	166	184			0.28	1.07	0,16	0.05	0.20	1.70	3.20	3,30	200	đ	5	ō	63	2,50	11.78	14.26	2.00	629.33	631 33
7	20		0.080	71	8	152	152	8.58	7.42	8.25	190	190	2	1 1	0.27	1 07	0.18	0.05	0.30	0.50	3.40	3.50	400	٥	5	0	63	2.50	13.47	15.97	2.00	855.53	657.53
!	19		0,083	68 80	2	160 160	162	8.60	7.49		198	194 198	2 2	1	0.29	1.10	0,20 0,18	0.07	0.30	0.50	3.30	3.50	400 200	0	5	0	64 64	2.50	14.57 17.91	17.07 20.41	2.00	746.01 956.03	750.01 958.03
10	21		0.084	54		""	,	8,77	7.60		\ '~~	.~~	\ <b>^</b>	'	0.29	1.08	0.19	0.07	0.30	1.20	3.30	3.30	1 200	"	5	٥١	64	2.50	16.01	18.51	2.00	820.95	822.95
11	20		0.073	56				8.78	7.60	6.34					0.30	1,05	0.17	0.06	0.20	1.90	3,00	3.10	1				65	2.50	15,42	16.92	2.00	810,45	812.45
12	19		0.071	55				7,60	7.60	8.40		400		١.,	0.31	1.01	0.23	0.07	0.10	1.80	3,10	3,10		٠.	1	١.	85	2.50	16.45	18,98	2.00	838.08	840,08
13	17 20		0.069 0.079	63 80	3	162	180	8.60	7,82	8.60	200	198	2	! !	0.28	1.05	0.19	1.08	0.10	1.70	0.10	2.70	500 500	0	5	. 0	65	2.50	2.59 2.52	5.09 5.02	2.00	92.83 80.81	84,83
16	18	1.10	0.067	61	2	184	185	8.67	7.59		202	202	2	1 1	0.26	.04	0.18	1.16	0.10	1.60	0.20	3.20	700	1 6	5	0	64	2.50	1.81	4,41	2.00	45.88	47.88
18	18		0.082	57	3	166	166	8.65		8.39	206	208	2	1	0.28	1.03	0.22	1:14	0.10	1.60	0.10	3.40	500	0	5	0	64	2.50	3.04	5.54	2.00	79,99	81,99
17	18		0.084	57	e	160	154	8,74	7.50		200	182	ļ	į	0.28	1.08	0,17	1.02	0,10	1.60	0.20	3.30	900	0	5	0	64	2.50	3.31	5.81	2.00	85.85	87.85
18 19	20 22	0.90	0.088 0.088	58 61	•	ľ		8.80	7.50 7.50		i	l			0.27	1.00	0.22	0.96	0.10	1.60	0.10	3.20		ł	ļ	i	62 62	2.50 2.50	3.45 2.62	5.95 5.12	2.00	96.61 68,01	70,01
20	18	1.10	0.086	-63	. 3	170	105	8.72	7.54	8.35	210	204	3	1	0.31	1.10	0.19	0.87	0.20	1.80	0.20	3.40	1100	o.	5	l o	82	2.50	2.42	4 92	2.00	63.85	85.85
21	20	0,80	0.069	65	8	166	168	6.70	7.66		208	202	2	1	0.27	1.09	0.18	0,63	0.20	1.60	0,20	3.30	700	ď	- 5	٥	63	2.50	2.51	5.01	2.00	66.28	68.26
22	20		0,060	68	4	176	184	8.84	7,86	8.26	218	208	3	!	0,29	1.08	0,17	0.93	0.20	1.70	0.20	3.40	700	0	5	0	63	2.50	2.7B	5.28	2.00	77.02	79.02
23	19	0.80	0.070	84	8	174	166 170	8.61	7.62		212	210 214	3 2	1 1	0.34	1 17	0.21	0.02	0,10	1.70	0.20	3.30	800 4800	0	5	0	63	2.50	2,53 2,71	5.03	2.00	65.14	67.14
24 26	17	0.60	0.075	54 50	٦	1.77	170	8 64	7.60		210	214	( 1	l '	0.31	1.10	0.16	0.91	0.10	1.70	0.20	3.40	1 4000	l "	"	, ,	62 62	2.50	2.92	5.21 5.42	2.00	88.27 75.74	70.27
25	16		0.076	56		1		8.58	7,60			T -			0.38	1.05		0.90	0.10	1,70	0.20	3.50			ļ	<del></del>	62	2.50	3.29	5.78	2.00	82.02	84.02
27	16		0.071	53	4	170	184	8,60	7.61	8.18	208	208	3	1	0.32	1,13	0.19	0.94	0.10	1.60	0.10	3.60	800	0	5	٥	60	2.50	3.22	5.72	2.00	87.43	69.43
28	16		0.068	52	0	170	168	8,54	7,60	8.21	204	208	3	1	0.31	1.04	0.19	0.92	0.20	1.50	0.20	3,40	500	٥	5	0	60	2.50	2.44	4,94	2.00	62.74	64,74
29 30	15 15		0.082	53 47		108	168	8.59	7,61	8.33	202	204	3 2	1	0,32	1.13 1.13	0.18	0.95	0.20	1,40	0.20	3.00	500	ا ا	5		59 58	2.50	1.91	4.41 4.49	2.00	49.07 53.84	51,07 55,84
31	18		0.057	48	ž	168	152	8.50	7.62			198	2	li	0.25	0.95		1.04	0.10	1.30	0.10	2.80	1900	ă	] "	Ì	59	2.50	2.21	4.71	200	62.58	84.58
TOTAL																								o	112	a							
AVE	19	1.00	9,005	91	4	154	191	5.59	7,55	6.31	201	199	2		0.30	1.09	0.10	9.00	0.16	1.61	1:30	3,20	855	0	5	2	63		8,61	9 11		293.57	295.67
MAX	23	1.90	9.076	76	8	176	179	8,80	7.55	0.50	215	211	3	1	9.49	129	5.23	1.16	0.40	1.60	3.40	1.60	4800			0	<b>e</b> 6		17.91	20.41	<b></b>	966.63	958.03
MIN:	15	0.60	0.045	47	2	148	148	7.59	7.32	8.00	84	102	2		0.29	0,95	0.15	6.03	9,19	0.50	0.10	270	100			0:	58		195	4.41	<u> </u>	45.85	47.85
COUNT	L	L	L		L	1	L _	ł		<u> </u>	L	L	l	l		L	Į.	1	<u>.                                    </u>		L	Į	l		L		l	<u> </u>			1	1 /	1

A July 12 John

#### SUPERPULSATOR PLANT

RLLINOIS-AMERICAN WATER COMPANY / ALTON DISTRICT FACILITY No. 119-6150

November-03

			·····					PHYSI	CAL -C	HEMICA	L.ANALY	SS.											Ę	ACTERIO	OGICAL					CT VA	LUES		
}	7)	VRBIDA (NTU)	· ]	COL (CU APP		ALKAL 199			PH CUNITS		HARD (PF		QD rffc	OR SHS	FLUC	RIDE MI)	AMM (P)	ONIA		RESIDE (PF			PLA	NT	DIST BY	METE	]	Remery.	inact.	Total Reduct.	Remov	Indet.	Reduct
1 1	-			,		NO 1	MO					-					-		FRC 2	11-02	FR-CL2					#	TEMP	Credit	Credit	Crock	Credit	Credit	Credit
DATE	RAW	ΤF	EFF	RÁW	EFF	RAW	ĘĖŦ	RAW	作	SFF.	RAW	Ekk	RAW	eff	RAW	EFF	RAW	EFF	SET	6ET	EFF	EFF	RAW	EFF	SAMPLES	>1	F	Gierdia	Giardia	Gjardja	Veuses	Virtuses	Virusos
1	15		0,045	47				8,44		8,12					0.32	1.01	0.20	1.10	0.10	1.50 1.50	0.20	3,30 3,30			-		59 58	2.50 2.50	2,52	5,02 4,50	2,00	84.08 43.49	86.08 45.49
2	14 15	0.90	0.043	48 48		170	168	8.41 8.47	7.50	8,16   8,11	212	204	3	4	0.34	1.00	0.19	1.08	0.10	1.50	0.10	3,20	1500	n-	5	0	59	2.50	2,17	4,67	2.00	52.35	54.35
	20		0.082	53	6	172	168	5.45	7.80	8.05	214	208	3	1	0.34	1.12	0.19	1.07	0.20	1.40	0.10	3.20	500	ũ	5	ä	59	2.50	2.52	5,02	2.00	85,84	67.84
1 7	20	1.00	0.061	50	5	170	184	8.42	7.57	8.00	206	212	2	1	0.33	1.00	0.18	0.99	0.10	1,30	0.10	3,50	500	. 0	5		50	2.50	2.64	5.14	2.00	70.31	72,31
	20	0.90	0.060	53	2	174	184	8.32	7.54	8.09	220	208	2	1	0,32	1.02	0.22	0.98	0,20	1,40	0.10	3,40	900	0	5	D	57	2.50	2,58	5.08	2.00	69.50	71.50
7	23	0.90	0.058	60	10	180	178	8.21	7.50	8,18	230	220	2	1:	0.37	1.07	0.32	0.87	0,10	1.50	0.10	3,10	1100	O.	5	0	55	2,50	2,07	4,57	2.00	54.85	56,85
	23		0.058	46	Į	1		8,10	7.60		Į Į	l l	l		0.31	1.03	0.27	1.00	0.10	1.50	0.10	3,10		ŧ	1		53	2.50	2,18	4.69	2.00	59.76	61.76
9	22	0,90	0,058	59				8.00	7.60		1		١.		0,35	1.06	0.29	1.02	0.10	1.50	0,10	3,20		ĺ	1		52	2.50	1.79	4.28	2.00	43.49	45,49
10	22	1,10	0.081	62	10	170	178	6,10	7.58	B.14	222	220	2	1-	0,38	1.13	0.31	1,00	0.10	140	0.10	3,40	<u> </u>	<del> </del>	ł		50	2,50	1.72	4.52	2.00	52.00 39.06	54.00 41.08
11	22 27	1,10	0.084	-59 65		470		8,00 8,10	7.60 7.57	8,25	امدما	210	١.	١.	0.35	1.07	0.27	0.98	0.10	1.40	0.10	3,00	5400	۰	5		50	2.50	1,54	4.22	2.00	37.64	39.64
13	24	1.00	0.071	62	1 1	170	174	8.24	7 89	8,23	218	214	2 2	, ,	0.38	1.00	0.24	0.94	0.10	1.00	0.10	3,20	300	0	5	2	50	2.50	1,74	4.24	2.00	44.75	46.75
14	18	1.00	0,069	55	a	174	170	8.34		8.30	220	224	2		0.29	1.15		0.85	0.10	1.50	0.10	3,00	1100	6	11	3	48	2.50	1,61	4.11	2.00	43,80	45,80
15	16	1.20	0.084	52		( "	1.0	8.50	7.80				1	١'	0.31	0.97	0.18	D.BC	0.10	1.30	0.20	3.20	11,00	, ,	''	, *	48	2.50	1,83	4.33	2.00	48.62	50.62
16	18	1.30	0.057	52				0.48	7.73	8.47	<b></b>		<b></b> -		0.27	0.68	0.17	0.86	0.10	1.30	0.10	3.20			3	0	48	2.50	1,69	4.19	2.00	41.78	43,78
17	17	1.50	0.053	48	3	170	170	8.50	7.09	8,33	218	218	2	1 1	0.32	0.98	0.17	0.97	0.00	1.40	0.10	3,50	200	۵	12	1	48	2.50	1.73	4.23	2.00	40,59	42.59
10	40	1.90	0.107	63	10	170	172	8.53	7.69	8.32	210	218	3	1	0,33	1.08	0.23	0.93	0.10	1.40	0.10	3.40	2600	٥	12	G	48	2,50	1.59	4.09	2.00	37:17	39.17
10	58	1,40	0.060	145	2	100	180	8.28	7.50	6,36	220	214	3.	1	0.34	1.04	0.35	1,00	0.10	1:40	0.10	3.10	500	) 0	15	1	49	2.50	1,51	4.01	2.00	38.90	40,90
20	115	4.10	0,127	324	3	140	142	7.98	7 44	8.03	190	190	_2_	1_1_	0.37	1,08	0.65	0.99	0.10	1,30	0,10	3.10	12600	. 0	20	ď	50	2.50	0.92	3,42	2.00	19.34	21.34
21	83	1.20	0.063	162	3	150	154	7.91	7.21	8.08	210	202	2	1	0,35	0.98	0.52	1.00	0.00	1.20	0.10	3,10	6700	۵ ۱	23	2	50	2.50	1.39	3.89	2.00	31.14	33,14
72	66		0.059	172	l		Į	7,89	7.30		(	Į.	ŧ		0.40	1.17	0.49	0.95	0.10	1.30	0,10	3,40	Į	ľ	23	1	50	2,50	1.79	4.29	2.00	47.88	49.86
23	74	1.00	0.080	189				7.30	7.50			۱	١.	. 1	0.40	1,18	0.48	0.95	0.10	3.10	0.10	3.30		[ _	23	0	51	2.50 2.50	1.83	4.33	2.00	50.11 35.87	52.11 37.87
24	78	1.20	0.053	153	3	164	182	8.08	7.30	8.50	224	218	3 2	1 1	0.34	1.07	0.42	0.95	0.10	1.20	0.10	3.20	14100	0	24	. 0	50 48	2.50	1.88	4.00 4.36	2.00	51,09	53,09
26	41	0.90		92	ě	174	174	8.08	7.35			230	1 2	+	0.30	0.99	0.34	0.98	0. 0	1,50	0.10	3.30	17:100	-			47	2.50	1,72	4.22	2.00	44.62	48,82
27	45	0.90			١ -	1	l " "	8.04	7.40		1 ~~~	]	} ~	١.	0.34	0.87	0:35	0.90	0.10	1,50	0.10	3.40	1	1	1		47	2.50	1,62	4.12	2.00	43,44	45,44
28	50	0.70	0.041	103	1	i	ļ	8.06	7.50	8.32	ł	i	l		0.36	1,00		0.88	0.10	1.40	0,10	3.30	<b>{</b>	1	1		47	2.50	1.68	4.18	2.00	40.59	42.59
29	45	0.80	0.042	105	i	}	}	8.10	7,50	5.40	ſ	1	1	1	0.33	0.95	0.30	0.62	0.10	1.30	0.10	3,30	<b>}</b>	l l	}		45	2,50	1,38	3.88	2.00	31,10	33,10
30	35	1.70	0.041	89	l	1 :		8.10	7,50	8,50	1	l	1	l	0.35	0.97	0.28	0.93	0,10	1,50	0.10	3.30	]		1 .		44	2.50	1,40	3.90	2.00	32,96	34,96
31	<u> </u>	1	1	<u> </u>	L.—	<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>	<u> </u>	<u> 1 —                                   </u>		<u> </u>	L	<u> </u>		<u> </u>	<u> </u>		<u> </u>	2.50	1	2.50	2.00		2.00
TOTAL		<u> </u>	<u> </u>		L				<u> </u>	<u>L</u> .			[		l								l	a	226	10	[ _ [	1	<u> </u>			1	1
AVE	37	1,23	0,000	92		367	167	9,10	7.54	8.27	216	214	2		0,34	1:04	0.30	0.06	0,10	1,37	Q.11	3.25	33.13	Ð	13		51		1,82	1,28		45,53	45.40
MAX	115	4,19	0,127	324	10	150	.178	1 50	7,80	8.83	232	230	3		0.40	1,50	0.55	1.10	9.20	1.50	0.20	3.50	14100	0	24		59		284	5,14		70.31	72.31
MIN	14	0.70	0.040	45	,	140	142	7.30	7,21	5.00	190	180	2		0.26	0,80	0.17	0.80	0.00	1,00	0.10	3.00	200	. 0	3	a	44		₽.92	2.50		10:34	2.00
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SUPERPULSATOR PLANT

(LINDIS-AMERICAN WATER COMPANY / ALTON DISTRICT FACILITY No. 118-6150

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l	3	Reduct	a see		3	2	35 13	31.65	28.78	32.80	28.01	19,60	22.7	17.77	25.27	8	3 28	%	21.12	15.25	7	58	11.83	5	14.15	Ž.	8	4.80	2	12.1	200	8	21.70	22.5	3		23,16	26.78	ğ	
		Tage of	V Tage		32.08	8,78	33,13	29.62	27.78	30.30	26.01	17.60	2	70.71	28.27	23.28	29.26	19,48	10,12	13.25	7,0	8	23,63	10.74	12.15	ý	1820	8	2	13.11	20.7	31.30	0.6	4. £	3		27.10	36.76	ă,	
8	-	WITHOUT,	# F		8	8	8	8	8	28	8	88	8	8	8	8	2.8	200	200	2.00	8	2.00	2,00	8	2.00	8	8	200	2.00	8	8 :	8	8	88	3	-				
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		Hemo	5 6		, 9		25	250	2.50	2.60	2.6	2,5	8	2.50	5	8	25	25	2,50	2.50	25	2,6	3	3	2,50	2	250	20	2	<b>3</b>	2	N N	7,50	250						_
	<b>,</b> .		<u></u>		<u>.</u>	<b>\$</b>	4	÷	¥	\$	\$	39	\$	¥	4	8	贵	8	31	25	8	క్ట	8	22	ş	8	<b>8</b>	8	8	<b>8</b> 8 9	<b>3</b> :	8	3	5	î		38	ş	×	
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	3	ı	25 H				-	0.10		0.10	-	0.10		-+	0,10	-		-	ښ.	<u></u>	-	_		-	-				4	-	-	-		88	┿	-	6.13	0.20	9,0	<b>├</b>
	RESPONAL CU	(Mad	25 1				٠.		- 5		-	_	8	-	_	_	-	_	_	Ь		_	8		را	-	-	_	4			_		8 8	+	1	1.51	1.70	8	ļ.,
			S L		2	2	0.0	0.10	8	8	٠ <u>.</u>	9	0.10	-+	5		_	-	٠.,	H	-	-	_	-	0.70	2	9	<b>2</b>	8	2	2	9	8	8	3		88	8	8	-
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	₹	Ē	AN A		-	٠,,				<b>`</b>	023	_		-	50	_		-	-		-	_	0.35	-			***	8	-+	8	_	_	_	8	4-	_	5	0.0M	4	-
	Selbe	(Page)	ŧ.		_	_	_	-	_	ļ.,			<u>.</u>	44	 	_	_	-	لِج	┡	Ŀ	_	1.17	_	1.24	_	_		4	_	-	-	_	8 5	4.	_	8	1	0,82	حنسة
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70-July

June-02

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1988# # 8861

#### PURIFICATION PLANT REPORT

#### SUPERPULBATOR PLANT

RLINOIB-AMERICAN WATER COMPANY/ALTON DISTRICT FACILITY No. 119-5150 20-برابط

											PHY	BICAL -	CHEM	CAL AN	ALYSIS								نس		84	CTERIOLOGIC	u			CT	VALUES		čr v	VALUES	
1		(NTU)	Ϋ́	COL			A	KALIN CPM				PH UNITS		HARE	NESS	OE (T	XOR ON)		PM)		ONIA PM)	RES	(PPM)	12	PLAN		DISTEYS	TEM		Remov.	lhect.	Total Redsct	Remov,	frenct	Total Reduct
DATE	RAW	TP	EFF	RAW	EFF	PAW	₽₩	RAW	SET	MC EFF	RAW	TF	EFF	RAW	ef#	RAW	EFF	RAW	EFF	PAW	EFF	FR CL2 SET	TL-CL2 EFF	FR CL2 EFF	MF7100mL RAW	MF/100mL EFF	No. SAMPLES	#£ >1	TEMP #	Credit	Credit Glandla	Credit Gistdia	Credit	Viruses	Vicuses
1 2	87 90	1.00	0.061 0.060	25	11			186	174	184	6.0	7.4	7.5 7.6	278 274	270 206	2 2	1	0.28	1.15	0,11	0.94	0.1	3.3	0,2 0,1	5G0 6G0	0	6	o	83 84	2.5 2.5	8.49 10.47	10.99 12.97	2.0 2.0	297.50	299.50
.3	75 71	6,80	0.052 0.064 0.089	34 33 36	9			180	180	180	7.8 7.9	7.5 7.6 7.4	7.6 7.0	274	270	2	1	0.41	1.10	0.04 0.18	0.91	0.1 0.2	3.4	0.2 0.2	i			İ	85 85	2.5 2.5 2.5	11.22 11.58 12.07	13.72 14.08 14.57	2.0 2.0 2.0	324,08 332,08 337,16	332,08
8 7	66 67 59	0.50	0.067	36 30	ľ		_	100	0	166	8.0 7.9	7.4 7.4	7,5 7.5 7.4	250	250	2	1-	0.28 0.25 0.21	1.02 1.02 0.99	0.13 0.14 0.26	0,93 0,97 0,98	0.1	32 32	0.2 0.2 0.2					88 85	2.5 2.5	10.13	12.63	2.0 2.0	2/8/AS	230.40
8	61 48	0.60	0.059 0.074	23 31	3			148 142	140 128	140	7.9	7.4 7.3	7.5 7.4	234 218	222 215	2 2	1:	0.25	1,20	0.13	0.92	0.2	3.4	0.2	920 800	0		.0	84 85	2.5 2.5	10.24	12.74 14.02	20	285.03 309.05	290.03 211.05
10	35 32		0,005 0,077 0,066	72 19 42	1	<del>                                     </del>	├─	148 150 148	146 140 124	140	7.0 7.9 6.0	7.3	7,4	215 222 210	210		-	0.18	0.93 0.96	0.16	0.93 0.84	0.2 6.2	3.4	0.3	900 200 400	D' D:	-	G O	84 82	2.5 2.5 2.5	10.63	14.72 13.13 14.10	20 20 20	305,61 297,20 337,39	299.25
12 13	38 42 50	2.60	0.060 0.050	41 48	′	1		196	0	134	8.0 5.1	7.3 7.3 7.3	7.4 7.4 7.4	210	298	2	<b>,</b>	0.25 0.25 0.20	1.04	0.14 0.15 0.14	0.83 0.83 1.00	0.2	1.0 12 2.7	0.3 0.2 0.3	440				20 81	2.5 2.5	9.25	11,79 12,60	2.0 2.0	289.50 289.33	291.50 291.33
15	46 43	1.80	0.084	81 94	12	├	├	166 168	148	148	8.1	7A	7.4	238 242	224 234	2	1-	0.27	1.00	0.21	0.99	0.2	3.4	0.2	1400	0		ō	82 62	2.5	10.56	13,03 13,08	2.0	299,78 303.06 303.52	
17 18	53 42 34	1,20 0.60 1,10	0,070 0,000 0,000	95 75 89	0			194 164	154 150 150	164	8.1	7.6 7.5 7.5	7.5 7.6 7.0	244 255 228	240 257 228	2 2 2	1	0.20 0.28 0.27	1.10	0.27 \$.15 4.21	0.91 0.92 0.89	0.2 0.2 0.2	3.6 3.5	0.2 0.2 0.3	400 1000	0		0	82 83 62	2.5 2.5 2.5	10.37 10.05 0.97	12.87 12.55 12.47	2.0 2.0 2.0	288,93 295,74	290,93
20 21	37 33	1.00	0,071	79 82	-	-	-		0	-	7.6	7.5	7.5	<del> </del>			-	0.27	1.06	0.19	0.94	0.2	3.4	0.3	<del>                                     </del>			<del></del>	87	2.5	6,52 12,12	12.32 14.52	2.0 2.0	265,67 320,13	
22 23 24	31 29 28	1.40 1.40 1.50	0.072 0.075 0.068	82 82	4 4 7			164 162 160	150 150 150	150 160 150	8.3 8.4 8.3	7.5 7.6 7.6	7.5 7.6 7.8	224 224 220	220 220 220	2 2	1	0.28 0.25 0.27	0.99	0.21 0.24 0.22	0.92 0.75 1.03	0.2 0.2 0.3	2.6 3.3	0.2 0.2 0.3	300 300	0	8	0	. 85 . 83	2.5 2.5 2.5	14.21	16,71 16,32 4,94	2.0 2.0 2.0	356,40 392,59 5,59	
25 25	24 24	1.10	0,067	80 80	10	├-	-	160	144	146	8.2	7.5	7.5	220 220	208	2	1	0.27 0.28	1.03	0.22	0.88	0.3	2.6 2.5	0.4	200 1100	<u>e</u>		<u> </u>	61 63	2.5	3,04	4.67 3,54	2.0 2.0	5.74 8.49	7.74 8.49
27 28 29	26 23 27	1.60 1.03 0.60	0.000	57 82	١.			150	0	140	8.2 8.2	7.5 7.5 7.5	7.4 7.4 7.4	214	210	2		0.26 0.23	0.91	0.24 0.20 0.23	1.00	0.4 0.3 0.3	3.2 3.6 3.2	0.8 0.7 0.8	300				87 87	2.5 2.5 2.5	4.37 4.85 4.33	5,87 7,35 6,83	2.0 2.0 2.0	7.91 7.89 7.08	9.91 9.62 9.06
30 31	25 27	1,00	0.074 0.068		6 2			182 186	146 142	146	0.3 0.3	7.6 7.8	7.3 7.3	220 212	222 210	2 2	1	0.27 0.25	1,01	0.24 0.20	15.0 0.88	0.3	3.0 3.5	0.8	1106 600	0	6 5	0	63 45	2,5 2.5	2.99 4,47	5,49 0,07	2.0 2.0	6.42 8.04	8.42 10.04
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AVE	45		0.068		5	├	-	163	100	152	1	7.5	7.5	213	229	3	1	0.26	103	0.19	0.93	02	33	0.3	870	<u> </u>	1 -	0	84	2.5	9.02	11.52	20		231.05
MAX	24		0.050		12	<del>                                     </del>	+	166	T-	128	7.5	7.5	7,6	210	270	3_	1	0.31	1,20	0.28	1,19 0.76	0.4	3.7	0.0	1400		-	-	88	2.5	2.37	16,71	2.0	5,59	7.59
COUNT		U.A.	0.050		•		<del>                                     </del>	142	"	128	1	1/3	7.3	CID	208	12	1	<u> </u>	0.91	0.00	0,78	0.1	2,5	0.1	200		<del>                                     </del>	<del>  "-</del>	1	2.5	C.37	7.57		3.50	1,33

June Jamy #8861

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	5	ST.		3	_			(MPP)			5	CUNITS		(PHM)	Ŷ	10kg	_	(PPM)	-	(Mod)	_	(PPN)	(PPIN)		-				_	Pag.	Reduct.	Remov.	FIRST.	Reduct
_	H	-	H	r	٢		F	Ę.	Ç	02	-	-	-	H	-	-	L	L	L	L	Ľ	77.0	2FR-CL	E-01/21	MP/100ml	No		2	-	Credit	Comme	₩ 75	1	5
DATE	3	<u> </u>	Erre A	W.W.	EFF	\$	EAT	RAW.	<u>.</u>		XX.	# F	_	RAW	EPF RA	RAW EFF	F RAW	V EEF	¥¥¥	> EFF	367	Ħ.	편	RAW	i i	SAMPLES	Ā	ш	Glendin	Giantle	Geerdla	Virubes	Viruses	Vincens
-	₩		_	8	-	1	f	35	Ļ.,	9 9	١	ļ	↓_	278	218	-	۲	1 92	۰	<del> </del> -	ô	15	0	Dec.	0	-	3	2	22	3.82	8 32	2.0	6.63	2
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m									-	45	÷		.,-				0.21	0.05		5		0	-					*	27	567	- 48	5.0	Ą	50
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40			_	8	_	_	_	_		_	·	_	_		7	-	0,23		-		-	. e5	9	227	۰			25	2.5	3	80.0	50	53	10.93
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	PERSONAL CLT		L	2	3	2	3 3	4	3	22	2	2 2	÷			1.5	3.	13	3	1 P	2	12	ន	7,5			33	3.0	3.0	
	ē	m		2.5	13	3:	12	2	3	33	2	7.2	2		, c	13	5	2	3 :	33	2	3 3	3	35	,		3	23	. 0	
	 } ⊊	1	<b>L</b>	5 2	3	5	9	Ę	ä	äż	8	<u> </u>	3	4	2	=	9	2	ij.	ğ	8	į	8	3 8	,		7	138	2.07	
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PHYSICAL - CHEMICAL /			ŧ	7.5	7	7.5	1	2	8	7.7	7,6	25	<b>5</b> .	4	:	2	2	Ė	2	22	2	2 5	7:	7.5	2		2	-22	7.6	
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	TURBENTY OFFILE	L	<u>Ľ</u>				+-		• •	<u> </u>	}	_		+		_		┿				<del>-</del>			-		_	7.00	0.70	
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may sold the sold of the sold

#### PURIFICATION PLANT REPORT

#### SUPERPULSATOR PLANT

PLINCIS AMERICAN WATER COMPANY/ALTON DISTRICT FACILITY No. 119-6150 December-02

- 1	🛌										PHY	BICAL:	CHEM		ALYBIC											CTERIOLOGIC	AL.		1	_ CT	VALUES		_ CTV	ALVES	
			~	COL			Al	KALIM (PPM)				pH UNITE	_	HARE	NE 83	ου (1	OR ON)		DRIDE PM)	ASAM (12	ONA PAN	RE:	(PPA)	CL2	PLAN	7	CIST SYS	TEM	1	Partnery.	Inect	Total Reduct	Remay,	inut.	Total Redu
ντε.	RAW	11=	er:	RAW	EPP*	PRAW	P err	RAW	NO SET	HO	RAW	Tr		RAW	EPT	RAW	<b>B</b> F	RAW	EFF	RAW	EFF:	FR-CL2	TL-CL2	FH-CL2	MPHORML RAIN	MF/100mL EFF	No. SAMPLES	)1 )1	TEMP	Credit Glardia	Credit Giardia	Credit Gerdin	Credit Vizuata	Credit Vinuses	Crec Vins
7	14	6.70	0.000	58		├─	├─-	166	4	┼─	8.4	7.6	7.4			-	-	0.28	1.12	0.28	4.65	0.2	8.3	0.2		· · · · · · · · · · · · · · · · · · ·	<del> </del>	-	स	25	1.52	4.02	20	50.76	527
2			0.067	30	1		ĺ	160	150	150	8.4	7.5	7.7	214	214	2	1.	0.21	1,03	0.42	1.00	0.2	3.3	0.2	700	0	5	0	40	2.5	1.54	4.04	2.0	51.43	53,4
3 [			0.067 0.068	61 58		1	ļ	166	160	180	8.6	7.6 7.5	7.5	208 220	210 224	2	!!	0.29	1.05	0.30	1.05	0.2	3.4	0.2	800		5		140	2.5	1.55	4.05	2.0	50.43 49.43	524
: 1	12		0.006	63	3	ļ		172	150	150	8.8	7.5	7.4	218	223	2		0.34	1,07	0.46	1.02	0.2	3.4	0.2	900	ă	"	ř	39	23	1.41	3,91	2.0	49.71	51.4 51.7
Ť	12	294	0.066	60	7	_	1-	174	184	184	17	7.4	7.6	222	228	2	1	0.27	0.93	0.41	1.05	0.2	12	0.2	300	9	5	ō	177	2.5	1.43	103	2.0	50.46	52
. i	12 Î		0.054			i	i	i	iä	i	1 8.6	7.6	7.0		i	ì	ì	0,29	1.10	0.42	1.08	0.2	3.3	0.2	i.		i i	i	i 36	2.5	1.63	1 4.11	20	54.14	55.
9	13	280	0.053		3.	Ì	ì	tes	162 150	162	8.5	7.8	7.2	220	216	2	1 1	0.31	1.09	0.36	1.06	0.1	3.4	0.2	500	0.	5	-0	36	2.5 2.5	1.38	3.88	2.0	47.98	49,
10	14		0.051	67	0			170		156	8.7	7.0	7.8	220	218	<u> </u>	ــــ	0.30	1.02	0.79	1.03	02	2.5	0.3	600	9	5	0	36		1.67	3,67	2.0	39.68	41.
!!	14		0.000	55	0			170	154	154	1 60	7.8	7.5	220	214 220	2	1	0,32	1,00	0.25	1.04	0.1	3.1	0.3	300	0	5	0	36	2.5	1.22	3.72 4.01	2.0	40.07	42
12	15 15		0.059	67	1	l	1	174	160	154	8.8 5.8	7.0	7.5	222	229	1 2		0.34	1.20	0.50	0.67	0.2	3.9	0.2	290 200	o o			36	2.5 2.5	1.51 2.07	4.57	2.0	43.30 64.52	, at
14			0.065		,	1	1	1 "	ő	1	8.8	4.0	7.5		1	1	) '	0.24	0.97	0.21	0.04	0.2	3.0	0.2		٠.	) ~ 1	"	35	2.5	1.62	4,32	2.0	57.94	1 6
15	14	3,40	0.050	59	·	<u> L</u>	1	<u> </u>	0		1.5	7.8	7.4	L	L			0.19	0.94	0.21	0,99	0.2	3.5	0.2	<u>[</u>		<u>1</u>		2.5	2,5	1.42	3.92	20	44.09	4
10	14		0,051	60	- 8	Τ	[	168	144	146	6.9	7.0	7.0	222	212	1	1	0.32	1,03	0.28	1.08	0.2	3.5	0.2	790	0	5	q	36	2.5	1.02	3.52	2.0	28.23	3
17 18	12		0.047	59 92	2	Į.		162	154	154	8.9	7.9	7,5	224 226	226 224	2 2	1	0.41	1,10	0.39	1,12	0.3	1.6	0.2	500 300	0	5	0	37	2.5	1,63	4.33 4.40	2.0	54.54 81.97	6
19	40	1,00	0.054	#C	2	1	1	150	148	148	8.9	7.6	7.7	212	220	Ìź	1	0.43	1.21	1.44	1,10	0.2	3.7	0.2	2200			) ,	38	2.5	1.98	4.48	20	85.13	7
20	28		0.000	50	2	1.	1	178	156	158	8.8	7.7	1.4	221	228	1 2	Li	0.34	0.93	0.36	1,13	102	3.4	0.2	3000	Đ.	5	0	40	2.5	2.21	4,71	2.0	69.75	7
21	15	7.60	2045	56		Г	1	Ī		1	8.6	7.6	7.5			1	Ţ	0.37	1:09	244	1.07	0.3	3,5	0.3			i		39	2.5	1.67	4.37	2.0	58.66	7
22	10				١.	l			.0	1	0.6	7,0	7.4	i	<b> </b>	١.	١.	0.56	1,00	0.37	-10	0.2	3.3	0.2	1		1	ĺ	36	2.5	1.72	4.22	2.0	55,13	1 5
27	18		0.048 0.049	67 58	1	1	}	178 156	180	150	9.5	7.s 7.s	7.5	234	238 250	2	1 .	0.35	1.10	0.45	1.05	0.2	3.3	0.2	1		1	1	30	2.5 2.5	2.00 2.10	4,50 4,50	20	63,37 87,00	6
25	15		0.046	50	,	1.	Ì	1.00	9	1	4.6	7.6	7.5	220		1 ^	1 "	0.33	1.03	0.30	1.08	0.3	3.4	0.2	1			ļ ·	38	2.5	2.02	4.52	2.0	03.59	
26	13		0.044	48	- 5	1	_	170	192	102	9.1	7.9	7.5	242	744	7	TT	0.30	1.13	0.35	1,04	0.2	3.4	0.3	400	0	5	ô	37	2.5	213	4.63	2.0	68.37	61
277 Ì	13		0.043	56	6			188	160	100	8.5	7.7	7.5	248	244	1	1	0.25	1,01	0.28	1,31	0.2	3.5	0.3	500	L C	. 5	0	36	2.5	1.94	4.44	2.0	50.91	6
25	12		0.041	51	1	1	}	ì	0	)	4.7	7.7	7,5	ĺ	1	1	1	0,35	1.03	0.34	1.00	7.2	3,6	0.2	1	)	1	1	35	2.5	1.95	1,45	2.0	60.50	1 0
30	13.		0,041 0,044	49 52	١.	l	1	184	160	160	8.7 9.0	7.7	7.0	238	230	2		0.32	1,00	0.30	1.05	0.2	3.5	0.2	1600			o	36 37	2.5 2.5	1.94	4.08	2.0	50.25	65
31	13		0.055	86	2			175	150		1 8 8	7.0	7.5	234	238	1	1	0.30	1.05	0,31	1.07	0.1	33	0.2	1620		<u> </u>		40	2.5	1.92	4.42	20	61,23	6
TAL						<u>L</u>		-			<u> </u>	_				<u> </u>				<u> </u>			<u> </u>				80								
VE.	15	3.85	0.056	69	3	1	-	170	107	158	8.7	7,8	7.8	225	228	2	1	0.32	1.05	0,36	1,05	0.2	3.4	0.2	752	9	5	0	37	2.5	1.70	4.20	2.0	54.53	1 34
AX.	40	10.20	0.122	80	8			186	166	155	9,1	6.0	7.0	248	250	2	1	0.43	121	0,40	1.18	0.1	3.0	0,3	3000	Q	5	0	41	2.5	2.21	4:71	2.0	69.75	12
ON.	12	1.50	0.041	48				150	. 0	146	6.4	7.0	7.4	208	210	Ţ,	1	0.10	0.93	0,21	0,87	0.1	2.0	0.2	200	0	5	D	35	2.5	1:02	3.52	2.0	28.23	7,
					<del></del> -	1-	<del></del> -	+	+	1 - 1 - 1	1 "	1	1	****	1	<b>†</b>		1	1	1 72	1	·		1	1		1		1	† <del>****</del>					╁~~

Wayne Johny #8861

# APPENDIX H

American Water Company (AWC)
Granite City, IL WTP – Chouteau Island
Raw Water Intake Sampling Data

GRANITE CITY, ILLINOIS

JANUARY,2005

		Ţ	URBIDIT NTU	Y	ALKAL PF	M		PH		HARDI PF	NESS PM		PM	RESIDU F	AL CL2 PPM		PLANT	DIST. SY	STEM	WATER	
					MO	МО								TL-CL2			il Col/100ml		NO.	TEMP.	PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	, EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	>1	F.	<del></del>
	1_1	17	3.0	0.05	200	200	8.3	7.8	7.7	288	280	0,28	1.12	3.7	3.8	<u> </u>		ļ		45	0.57
	12	15	3.7	0.05	212	204	8.3	7.8	7.7	288	280	0.24	1.07	3.6	3.7	1	<u> </u>			46	0.56
	3	99	3.4	0.04	200	204	8.3	7.5	7.4	296	300	0.23	1.01	3.5	3.7	13800	0	3	0	46	0.55
	4	120	4.5	0.05	184	180	8.2	7.6	7.5	240	244	0.24	1.05	3.0	3.4	6600	0	3	<u> </u>	46	0.55
	5	168	3.4	0.05	172	172	8.1	7.6	7.5	216	232	0.21	1.01	2.9	3.2	5400	0	3	00	46	0.50
	6	173	4.7	0.06	144	140	8.0	7.5	7.4	184	188	0.18	1.01	2.8	3.7	6400	<u> </u>	3	<u> </u>	46	0,61
	7_	150	5.4	80.0	140	138	7.6	7.5	7.4	180	180	0.20	0.95	3.2	4.0	1900	0	3	0	46	0.50
	8	129	5.7	0.07	140	132	7.9	7.5	7.4	176	176	0.19	1,01	3.2	3.8			ļ		46	0.52
	9	98	6.4	0.06	144	136	7.8	7.5	7.3	180	180	0.20	1.08	3,3	3.8					46	0.51
	10	73	7.3	0.06	146	144	7.9	7.4	7.3	212	200	0.23	1.09	3.4	3.9	3200	0	3	<u> </u>	46	0.52
	11_	60	7.1	0.05	160	140	7.9	7.5	7.4	216	212	0.23	1.11	3.6	4.0		0	3	<u>0</u>	45	0.54
	12	59	5.6	0.05	172	152	7.9	7.4	7.4	224	224	0.23	1.12	3.7	3.9	2600	0	3	<u> </u>	46	0.53
	13	192	3.4	0.05	172	144	7.8	7.5	7.3	228	228	0.20	1.12	3.2	3.5	1100	0	3	0	46	
	14	179	2.9	0.06	184	180	7.8	7.4	7.3	220	220	0.21	1,13	3.5	3.7	7800	0	3	0	<u>46</u> 46	0.53
		194	5,1	0.06	136	120	8.0	7.5	7.4	208	192	0.22	1.11	3.5	3.7						0.52
	16	177	6.9	0.06	128	120	7.6	7.5	7.4	188	188	0.22	1.09	3.4	3.8	1222	<del> </del>			45	0.50
***************************************	17	144	6.6 7.2	0.08	136	120	7.7	7.4	7.4	198	194	0.21	1.12	3.5	4.0	1200	, ŏ	3	0	46 45	0.51
		139		0.06	140	120	7.7	7.5	7.4	200	196	0.22	1.08	3.6	3.9	3800	0	3	0	45	0.50
	19	124	6.0	0.06	132	128	7.6	7.5	7.3	200	200	0.23	1.05	3.4	3.7	3600	0	3	0		0.50
	20	125	6.1	0.06	132	124	7.8	7.5	7.4	200	200	0.23	1.04	3,4	3,8	2300	0	3 [	0	45	0.54
	21	119	5.7	0.05	100	128	7.8	7.6	7.4	208	200	0.23	1.10	3.4	3.9	1500	0	3	0	45	0.52
	22	115	5.3	0.05	148	140	7.9	7.5	7.4	232	224	0.21	1.12	3.6	3.8	<del> </del>		<del> </del>		45	0.52
	23	103	5.6	0.05	152	144	7.8	7.4	7.4	228	228	0.23	1.13	3.7	4,0	1700		·		44	0.52
	24	88	5.7	0.05	160	144	7.6	7.4	7.3	228	220	0.23	1.11	4.0	3.9	1700	0	3	<u> </u>	44	0.53
	25	78	5.8	0.05	152	136	7.7	7.5	7.3	216	208	0.23	1.13	3.8	4.0	600	0	3	ō _	44	0.52
	26	72	6.1	0.05	152	136	7.6	7.3	7.2	216	208	0.23	1.13	3.8	3,7	300	0	3	0	44	0.52
	27	69	5.5	0.05	156	140	7.7	7.3	7.2	212	204	0.21	1.01	3.8	3.8	3000	<u> </u>	3	<u> </u>	43	0.52
	28	62	6.2	0.05	160	152	7.7	7.4	7.3	232	232	0.24	1.12	3.8	3.9	900	0	3	0	43	0,51
	29	57	5.9	0.05	156	148	7.8	7.4	7.3	228	238	0,21	1.11	3.8	3.8	ļ				43	0.53
	30	48	6.8	0.05	160	152	7.8	7.6	7.3	232	232	0.23	1.12	3.8	3.8					43	0.55
50 T 11	31	44	6.2	0.05	168	152	7,8	7.4	7.3	228	228	0.22	1.13	3.8	3.8	1400	0	3	0	43	0.52
TOTAL	41.45	400		• • •	400	4.479			<b></b> .							2.455	_	63		45	0.50
AVE	AVE	106	5.5	0.06	156	147	7.9	7.5	7.4	219	217	0.22	1.08	3.5	3.8	3455	0	3	0	45	0.53
MAX	MIN	15	2.9	0.04	100	120	7.6	7.3	7.2	176	176	0.18	0.95	2.8	3.2	300	0	3	0	43	0.50
MIN	MAX	194	7.3	80.0	212	204	8.3	7.8	7.7	296	300	0.28	1.13	4.0	4.0	13800	0	3	0	46	0.61

GRANITE CITY, ILLINOIS

FEB.,2005

		Т	URBIDIT NTU	Υ .	ALKAI Pi	LINITY PM		PH		HARD Pi	NESS PM	_	ORIDE PPM		JAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	<b>२</b>
					MO	MO								TL-CL2	TL-CL2	Col/100m	Col/100ml	NO.	NO.	TEMP	. PHOS.
	DATE	RAW	SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	>1	F	·
	1 _	42	5.1	0.05	168	156	7.5	7.4	7.3	236	240	0.21	1.11	3.7	3.7	1700	0	3	0	43	0.51
	2	39	5,3	0.03	176	164	7.7	7.3	7.3	236	236	0.20	1.13	3.7	3.8	2600	0	3	0	43	0.51
	3	35	5.3	0.05	160	148	7.7	7.3	7.2	240	232	0.24	1.08	3.5	3.6	3200	0	3	0	43	0.52
	4	32	5.2	0.05	168	152	7.7	7.3	7.2	240	228	0.24	1.13	3.4	3.4	800	0	3	0	43	0.52
	5	29	5.0	0.05	164	156	7.9	7.3	7.2	240	228	0.22	1.08	3.5	3,4					43	0.53
	6	25	4.5	0.05	160	156	7.7	7.5	7.3	232	228	0.24	1.08	3.3	3.3	ĺ	(			43	0.54
	7	24	4.2	0.05	180	172	7.9	7,4	7.3	260	260	0.21	1.06	3.5	3.5	4400	0	3	0	43	0.53
	8	49	4.6	0.05	184	172	7.9	7.4	7.3	272	260	0.26	1.10	3.5	3.5	6400	0	3	00	43_	0.51
	9	41	5.0	0.05	192	180	7.8	7.4	7.3	260	260	0.23	1.12	3.5	3,5	9700	0	3 [	Q	45	0.52
	10	39	4.9	0.05	192	184	7.8	7,4	7.4	280	272	0.21	1.14	3,5	3.5	1800	0	3	0	45	0.52
	11	33	5.5	0.05	188	180	7.8	7.5	7.4	276	272	0.24	1.08	3.5	3.5	2100	0	3	0	45	0.53
	12	30	4.4	0.05	192	180	7.7	7.6	7.5	268	260	0.22	1,08	3.5	3.4		!			45	0,54
	13	42	4.2	0.05	192	180	7.9	7.5	7.4	272	260	0.21	1.11	3.5	3.2					45	0.53
	14	106	4.6	0.05	212	172	7.8	7,4	7.3	252	252	0,25_	1.08	3,3	3.1	7800	0	3	0	48	0.53
	15	99	3.8	0.05	204	168	7.8	7.4	7.3	260	252	0.22	1.06	3.2	3.2	3200	0	3	0	45	0.53
	16	148	3.9	0.06	160	160	7.7	7.3	7.2	240	240	0.23	1.08	3.3	3.4	2400	0	3	00	45	0.53
	17	124	3.7	0.06	160	152	7.5	7.2	7.1	236	236	0.25	1.09	3.1	3.1	1800	0	3	00	46	0.54
	18	86	3.8	0.06	156	148	7.6	7.3	7.2	240	232	0.25	1,14	2.8	3.1	1100	0	3	0	46	0.57
	19	65	3.8	0.05	172	164	7.7	7.3	7.2	260	256	0.25	1.14	3.0	3.4		:			46	0.53
	20	53.	3.8	0.05	168	160	7.6	7.3	7.2	256	244	0.24	1.12	3,1	3.3	ļ		:		46	0.53
	21	49	3.6	0.05	192	184	7.7	7.4	7.3	264	264	0.24	1.10	3.0	3.4	1000	0	33	0	45	0.53
	22	46	3.7	0.05	192	184	7.7	7.3	7.2	268	268	0.25	1.08	3.4	3.4	500	0 _	3	0	46_	0.53
	23	43	3.6	0.05	192	184	7.7	7.3	7.2	268	268	0.25	1.01	3.4	3,5	3800	0	3	Q	45	0.51
	24	41	4.1	0.05	188	180	7.7	7.4	7.3	260	260	0.24	1.10	3.3	3.6	1800	0	3	0	46	0.52
	25	39	3.9	0.05	192	180	7.8	7.4	7.3	264	264	0.23	1.09	3,2	3,6	1600	0	3	0	46	0.61
	26	35	3,7	0.05	192	184	7.8	7.4	7.3	260	260	0.24	1,11	3,1	3.6				er 1946-400 21 (2004-21)	46	0.54
	27	33	3.3	0.05	188	190	7.8	7.4	7.3	264	264	0.23	1,06	3.1	3.4		l			46	0.55
	28	31	3.8	0.05	176	160	7.8	7.4	7.3	248	244	0.27	1.06	3.1	3.5	200	0	3	00	46	0.52
	29										i										<u> </u>
	30			1						1		1	1			<u> </u>	L			enception of the second of the second	· vk - common
	31										<u> </u>										1
TOTAL												- Control Control						60			
AVE	AVE	52	4.3	0.05	181	170	7.7	7.4	7.3	255	251	0.23	1.09	3.3	3.4	2895	0	3	0	45	0.53
MAX	MIN	24	3.3	0.03	156	148	7.5	7.2	7.1	232	228	0.20	1,01	2.8	3,1	200	0	3	0	43	0.51
MIN	MAX	148	5.5	0.06	212	190	7.9	7.6	7.5	280	272	0.27	1.14	3.7	3.8	9700	0	3	0	46	0.61

RT ≟RURBAN DISTRICT

FACILITY NO. 163-5040

GRANITE CITY, ILLINOIS

MARCH, 2005

		Т	URBIDIT NTU	Υ	ALKAL Pr	РМ		PH		HARDI PF	NESS PM		ORIDE PM	RESIDU F	AL CL2 PPM		PLANT	DIST. SY	STEM	WATER	<b>t</b>
		. =			МО	MO								TL-CL2		Col/100ml			NO.		PHOS.
	DAIL	RAW	SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW		SAMPLES	>1	F_	
	1 1	36	3.7	0.05	180	168	7.8	7.4	7.3	248	248	0.25	1.06	3.3	3.4	600	0	3	0	46	0.51
	2	23	3.3	0.08	184	180	7.8	7.4	7.3	240	236	0.25	1.06	3,4	3.4	0	0	3	0	46	0.50
	3	21	2.9	0.05	180	164	7.8	7.4	7.3	244	244	0.25	1.03	3.3	3.6	200	0	3	0	45	0.52
	4	20	3.3	0.05	180	172	7.8	7.4	7.3	256	252	0.27	1.00	3.4	3.7	400	0	3	• 0	45	0.52
	5	20	2.7	0.05	192	172	7.7	7.4	7.3	260	260	0.24	1.07	3.4	3.6			ļ <u> </u>		52	0.54
	6	19	2.5	0,05	188	175	7.6	7.3	7.2	280	260	0.22	1.13	3.5	3.6					47	0.54
	7	22	3,0	0.05	184	168	7.7	7.3	7.2	280	260	0.23	1.03	3.4	3.6	500	0	3	0	47	0.52
	8	19	2.5	0.05	196	180	7.7	7.4	7.3	276	260	0.22	1.11	3.5	3.7	400	0	3	0	47	0.51
	9	17	2.9	0.05	188	180_	7.8	7.4	7.3	284	268	0.22	1.06	3.6	3.7	200	0	3	0	47	0.50
	10	18	2.5	0.05	192	176	7.8	7.4	7.3	284	280	0.23	1.08	3.7	3.8	400	0	3	0	49	0.52
13/0/15/0	11	22	3.2	0.05	184	172	7.8	7.4	7.3	260	260	0.21	1.06	3.7	3.8	700	0	3	0	47	0,52
	12	18	3.1	0.05	192	176	7.8	7.4	7.4	296	288	0.24	1.08	3.7	3,8	<u> </u>				47	0.54
	13_	21	3.0	0.05	196	180	8.0	7.5	7.4	284	280	0.23	1.12	3.6	3.7					47	0.51
	14	21	3.3	0.05	204	184	8.0	7.5	7.4	280	272	0.21_	1.05	3.6	3.7	300	00	3	O	47	0.53
	15	18	3,7	0.04	200	188	7.8	7.5	7.3	300	292	0.23	1.01	3.7	3.7	100	Q	3	0	47	0.50
	16	17	3.2	0.05	184	180	7.8	7.6	7.5	288	288	0,21	1.10	3.6	3,6	300	ø	3	0	47	0.54
	17	18	3.2	0.04	204	200	8.0	7.5	7.4	280	280	0.20	1,04	3.9	3.8	700	0	3	0	46	0.54
	18	18	3.0	0.04	204	200	8.0	7.5	7,4	276	276	0.20	0.99	3,8	3.9	400	0	3	0	47	0.54
	19	19	3.2	0.04	204	200	8.1	7.5	7.4	280	280	0.21	1.08	3.8	3.7			1		48	0.53
	20	18	3.1	0.04	208	200	8.2	7.6	7.5	280	280	0.21	1.07	3.7	3.6				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	48	0.52
	21	18	2.6	0.04	208	204	8.2	7.7	7.6	284	284	0.23	1.07	3.8	3.7	0	0	3	0	48	0.54
	22	18	2.1	0.04	216	204	8,3	7.7	7.6	284	286	0.22	1.09	3.6	3.7	0	0	3	0	48	0.54
	23	28	2.6	0.04	200	192	8.2	7.7	7.6	260	260	0.25	1.08	3.6	3.5	5000	0	3	0	47	0.52
and the second s	24	20	2.5	0.04	196	188	8.2	7.7	7,6	272	260	0.23	1.04	3.4	3.4					47	0.53
	25	18	2.5	0.04	196	180	8.2	7.6	7.5	260	252	0.21	1.05	3.6	3.4					48	0.52
	26	19	2.7	0.04	200	192	8.2	7.7	7.5	264	260	0.23	1.02	3.5	3.7					48	0.53
	27	21	2.7	0.04	192	180	8.2	7.7	7.5	256	252	0.22	1.04	3.5	3.6					47	0.55
	28	20	2.6	0.04	192	180	8.2	7.0	7.4	252	244	0.29	1.04	3.6	3.5	2300	0	3	0	47	0.51
	29	19	2.6	0.04	200	164	8.1	7.6	7.5	268	260	0.24	1.10	3.7	3.6	800	0	3 ;	0	46	0.51
10.000	30	25	2.3	0.04	180	188	8.2	7.6	7.5	260	260	0.24	1.06	3.5	3.6	600	0	3	0	48	0.52
	31	27	2.7	0.04	196	180	8.2	7.6	7.5	260	260	0.23	1.05	3.1	3.6	900	0	3	0	49	0.53
TOTAL		<u> </u>		0.07	150	1.100	U.Z	1.0	1.22			0.23	1.00	1 2.1		300	<u>U</u>	63		70	0.00
AVE	AVE	21	2.9	0.05	194	183	8.0	7.5	7.4	271	266	0.23	1.06	3.6	3.6	705	0	3	0	47	0.52
MAX	MIN	17	2.1	0.04	180	164	7.6	7.0	7.2	240	236	0.20	0.99	3.1	3.4	0	0	3	ő	45	0.50
MIN	MAX	36	3.7	0.04	216	204	8.3	7.7	7.6	300	292	0.20	1.13	3.1	3.9	5000	0	3	n n	52	0.55
IAIEL A	אירוווו	30	3.1	0.00	210	204	0.3	1.1	1.0	300	454	U.ZS	1,10	3.8	3.5	2000	U	J	U	¥2	0.55

GRANITE CITY, ILLINOIS

APRIL. 2005

		Ŧ	URBIDIT NTU	Υ	ALKAL Pi	INITY M		PН		HARD. Pr	NESS PM	–	ORIDE PM	RESIDU	IAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100m RAW	l Col/100ml EFF	NO. SAMPLES	NO. >1	TEMP.	PHOS.
	1	30	2.4	0.04	196	184	8.2	7.6	7.5	268	268	0.24	1.05	3.4	3.7	500	1 0	3	0	50	0.54
.,	2	30	2.5	0.04	200	192	8.3	7.7	7.5	276	264	0.24	1.07	3.3	3.6				y- ~_ ~_ ~	50	0.54
	3	32	2.2	0.05	192	192	8.3	7.7	7.6	280	268	0.25	1.09	3.3	3.2	***************************************				50	0.56
	4	38	2.0	0.04	196	186	8.2	7.7	7.6	272	280	0.21	1.09	3.6	3.2	100	0	3	0	51	0.56
	5	46	2.0	0.04	192	184	8.3	7.7	7.5	280	268	0.25	1.11	3,3	3.5	200	0	3	0	52	0.56
	6	49	2.1	0.04	192	180	8.3	7.0	7.5	284	272	0.26	1.10	3.2	3.6	500	0	3	0	52	0.51
	7	45	2.2	0.04	184	180	8.2	7.6	7.5	280	280	0.25	1.08	3.0	3.6	300	0	3	0	53	0.53
	8	38	2.1	0.04	180	172	8.2	7.6	7.4	276	276	0.26	1.04	3.3	3,5	600	0	3	0	52	0.51
	9	39	2.0	0.04	188	176	8.1	7.5	7.3	252	252	0.25	1.08	2.9	3.6					54	0.51
	10	40	1.9	0.04	168	168	8.1	7.5	7.4	252	252	0.23	1.08	2.7	3.5					54	0.50
	11	42	1.8	0.04	196	184	7.8	7.4	7,3	244	244	0.22	1.06	2.7	3.5	200	0	3 (	0	55	0.52
	12	47	2.0	0.04	184	172	7.8	7.4	7.3	236	236	0.21	1.09	3.3	3.4	500	0	3	0	56	0.54
	13	64	2.2	0.04	176	168	7.8	7.4	7.3	224	228	0.22	1.11	3.2	3,6	300	1 0	3	00	56	0.54
	14	71	2.2	0.04	172	160	7.7	7.4	7.3	220	224	0.20	1.04	3.2	3.7	600	0	3 1	0	56	0.55
	15	80	1.5	0.05	168	160	7.7	7.4	7.3	220	224	0.20	1.08	3.4	3.7	500	0	3	00	56	0.52
	16	128	1.4	0.06	148	140	7.6	7,3	7,2	200	192	0.22	1.06	2.8	3.6	ļ	1			56	0.50
	17	131	1.8	0.06	144	136	7.6	7.2	7.1	180	180	0,25	1.07	2.5	3.6		<u> </u>			56	0.52
	18	88	2.4	0,06	148	140	7.6	7.3	7.3	196	196	0,18	1.03	2.8	3.5	500	0	3	<u> </u>	57	0.55
	19	64	2.3	0.05	160	140	7.6	7.3	7,1	208	204	0.21	1.06	4.2	3.5	200	0	3	<u>0</u>	58	0.54
	20	57	3.7	0.05	156	144	7.7	7.2	7.2	212	212	0.18	1.06	2.1	3.1	100	0	3	0	<u> 58</u>	0.56
	21	48	3.1	0.05	156	156	7.6	7.1	7.2	212	212	0.21	1.07	3.1	3.0	300	0	3	0	58	0.55
	22	44	1.5	0.05	152	136	7.6	7.1	7.2	220	220	0.22	1.05	2.8	3.6		0	3	00	59	0.55
	23	36	1.9	0.05	160	156	7.6	7.2	7.2	220	212	0.22	1.03	2,5	3.5		<u> </u>			60	0.57
	24	31	2.2	0.04	160	160	7.4	7.2	7.3	216	212	0.21_	1.08	3.0	3.5		<del> </del>			58	0.52
	25	36	2.2	0.04	168	160	7.8	7.3	7.3	228	224	0.24	1.08	3.0	3,6	1100	0	3	0	60	0.53
	26	52	4.0	0.04	160	156	7.7	7.3	7.3	236	228	0.24	1.06	3.0	3.6	500	<u> </u>	3	<u> </u>	60	0.52
	27	71	4.1	0,05	156	160	7.6	7.3	7.3	228	224	0.23_	1.05	3.3	3.4	700	0	3	0	59	0.54
	28	54	2.7	0.04	160	160	7.7	7.3	7.3	236	224	0.23	1,02	3,8	3,7	1100	0	3	0	60	0.53
	29	51	2.5	0.04	156	152	7.5	7.3	7.4	224	228	0.22	1.14	4.0	3.7	1100		3	0	60	0.53
	30	46	2.2	0.04	172	172	7.6	7.3	7.4	260	252	0.24	1.08	3.6	3.8		<u> </u>			59	0.54
	31	ll			1					Ì			<u> </u>				1			<u>i</u>	
TOTAL														•			_	63	_		0.00
AVE	AVE	54	2.3	0.04	171	164	7.8	7.4	7.3	238	235	0.23	1.07	3.1	3.5	471	0	3	0	56	0.53
MAX	MIN	30	1.4	0,04	144	136	7.4	7.0	7.1	180	180	0.18	1.02	2.1	3.0	0	0	3	0	50	0.50
MIN	MAX	131	4.1	0.06	200	192	8.3	7.7	7.6	284	280	0.26	1.14	4.2	3.8	1100	0	3	0	60	0.57

GRANITE CITY, ILLINOIS

MAY, 2005

		T	URBIDIT NTU	Y	ALKAL PF			PH		HARDI PF	NESS PM		ORIDE PM	RESIDU F	AL CL2 PPM		PLANT	DIST. SY	STEM	WATER	t
					MO	MO								TL-CL2		Col/100ml			NO.	TEMP.	PHOS.
	DATE		SET	EFF	RAW	<u>EFF</u>	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	>1	<u> </u>	
	1_1_	43	2.8	0.04	168	172	7.7	7.3	7.4	240	228	0.23	1,13	3.5	3.7					59	0.55
	2	38	2.5	0.04	160	156	7.7	7,4	7.4	232	232	0.22	1.08	3.4	3.6	0	0	3	0	58	0.56
	3	34	2.1	0.05	172	180	7.6	7.4	7.5	248	252	0.23	1.05	3.0	3.6	300	0	3	00	58	0.57
	4	33	2.5	0.07	164	164	7.7	7.3	7.4	232	240	0.22	1.06	2.7	3.6	300	0	3	0	58	0.55
	5	29	2.7	0.04	164	164	7.8	7.3	7.4	232	232	0.21	1.10	2.8	3.6	0	0	3	0	58	0.50
	6	27	2.4	0.04	168	168	7.9	7.4	7.5	240	228	0.23	1.08	3.3	3.6	300	0	3	()	58	0.51
	7	22	2.1	0.04	172	160	8.0	7.5	7.4	228	228	0.24	1.03	3.1	3.9					58	0.48
	8	20	1.9	0.05	160	160	8.1	7.5	7.3	228	228	0.22	1.08	3.3	3.5					59	0.46
	9	19	2,1	0.05	168	160	8.2	7,5	7.3	228	228	0.21	1.01	3.3	3.7	0	0	3	0	60	0.48
·	10	18	2.5	0.04	172	164	8.1	7.5	7.3	220	212	0.24	1.01	2.9	3.7	100	0	3	0	60	0.47
	11	17	1.8	0.04	168	152	8.1	7.4	7.2	220	208	0.25	1.07	2.7	3.6	100	0	3	0	61	0.48
	12	19	1.7	0.05	156	148	8.1	7,4	7.3	220	212	0.21	1.03	2.5	3.6	100	0	3	0	61	0.51
	13	19	2.2	0.05	168	160	7.9	7.3	7.3	220	212	0.27	1.02	3.2	3,4	400	0	3	0	62	0.51
	14	22	2.1	0,05	160	152	7.9	7.3	7.2	220	212	0.27	1.11	3.2	3,4					62	0.50
	15	25	1.9	0.05	160	156	7.7	7.2	7.1	216	200	0.22	1.09	3.1	3,4		<u> </u>			63	0,50
	16	24	1.9	0.05	160	164	7,8	7.3	7.4	220	220	0.28	1.10	3.2	3,4	200	0	3	0	64	0.50
	17	35	1.7	0,05	164	136	7.8	7,2	7.3	224	224	0.24	1.04	3.3	3.6	100	0	3	0	64	0.52
	18	39	1.6	0.05	172	160	7.8	7,2	7.2	228	240	0.27	1.04	3.4	3,6	200	0	3	0	65	0.51
	19	35	1.7	0.05	160	164	7.7	7,2	7.2	248	252	0,27	1.02	3.2	3.6	0	0	3	0	64	0.51
	20	33	1.9	0.05	160	160	7.6	7.2	7.2	252	256	0.31	1.01	3.2	3.4					64	0.56
	21	33	1.9	0.04	172	160	7.6	7.3	7.2	220	228	0.23	1.04	3.3	3,6					64	0.52
	22	36	2.0	0.04	168	160	7.6	7.3	7.2	228	224	0.24	1.08	3.7	3.6	<u> </u>				65	0.50
	23	37	2.1	0.05	160	164	7.8	7.4	7.3	240	240	0.27	1.07	3.5	3.6	300	0	2	0	65	0.53
	24	43	1.9	0.05	168	160	7.5	7.4	7.3	228	240	0.26	1,05	3.5	3.8	300	0	3	0	65	0.57
	25	38	1.7	0.05	160	164	7.5	7.2	7.2	236	236	0.25	1.12	3.2	3.6	2100	0	3	0	66	0.52
	26	33	2.0	0.05	168	172	7.5	7.2	7.2	240	236	0.25	1.13	3,4	3,5	200	0	3	0	66	0.54
	27	32	2.1	0.05	164	164	7.5	7.2	7.1	236	244	0.23	1.14	3.4	3.6	900	0	3	0	66	0.53
	28	31	2.1	0.05	172	172	7.5	7.3	7.3	236	240	0,28	1.03	3.6	3.5					61	0.53
	29	30	1,9	0.05	172	172	7.9	7.5	7.5	236	236	0.26	1.08	3.7	3,3	İ			mALS construction of the same	62	0.53
	30	31	2.0	0.05	176	164	7,9	7.4	7.4	232	232	0.26	1.00	3.5	3.4					66	0.56
	31	29	2.1	0.05	180	168	7.9	7.5	7.5	240	240	0.31	1.07	3.6	3.6	900	0	3	0	67	0.55
TOTAL			•		-,													56			
AVE	AVE	30	2.1	0.05	166	162	7.8	7.3	7.3	231	230	0.25	1.06	3.2	3,6	340	0	3	0	62	0.52
MAX	MIN	17	1.6	0.04	156	136	7.5	7.2	7.1	216	200	0.21	1.00	2.5	3.3	0	0	2	0	58	0.46
MIN	MAX	29	2.0	0.07	180	180	8.2	7.5	7.5	252	256	0.31	1.14	3.7	3.9	2100	0	3	0	67	0.57
WILLY	MINOC	LO	20	0.07	100	100	0.2	7.5	7.0	232	230	0.01	1.17	3.1	3.9	2100	U	J	Ü	U,	

GRANITE CITY, ILLINOIS

JUNE,2005

		T	TURBIDIT NTU	Υ		PM		РН		HARD Pi	NESS PM		ORIDE PM	RESIDU F	IAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	<b>ર</b>
					МО	MO								TL-CL2			I Col/100m		NO.		PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	>1	F	
		26	2.9	0.05	168	168	8.1	7.5	7.4	236	236	0.26	1,10	3.8	3.9	400	0	3	0	67	0.58
	2	24	2.1	0.05	168	168	7.9	7.5	7.5	236	236	0.29	1.12	3.8	3.7	400	0	3	0	67	0.56
	_ 3	23	3.4	0.05	180	172	8.0	7.5	7.5	228	232	0.28	1.09	3.8	3.6	700	0	3	00	68	0.54
	4	23	2.1	0.05	176	176	8.0	7.5	7.5	236	236	0.18	1,14	3.5	3.5	<u> </u>	<del></del>			68	0.55
	5	22	2.2	0.05	168	164	7.9	7.5	7.4	240	244	0.35	1,10	3.5	3.5	ļ		<u> </u>		69	0.56
	6	17	2.2	0.05	168	160	7.7	7.4	7.4	224	232	0.33	1.15	3.4	3.4	0	<u>' 0                                   </u>	3	0	70	0.57
	7	26	1.8	0.05	164	164	8.0	7.5	7.4	228	224	0.27	1.09	3.6	3.4	500	<u> </u>	3	0	70	0.56
	8	30	1.8	0.05	168	164	8.1	7.5	7.5	216	208	0.41	1.07	3,3	3.5	200	0	3	0	70	0.56
	9	32	1.5	0.05	172	160	7.7	7.5	7,5	240	240	0.30	1,03	2.8	3,5	400	<u> </u>	ļ		70	0.56
	10	30	1,7	0.05	164	160	7.8	7.5	7,4	247	236	0.35	1.01	2.7	3.4	1000	0	3	0	72	0.56
Andrews Communication of the C	11	31	1,8	0.05	168	160	7.9	7.4	7.3	260	240	0.29	1.09	2.4	3,2		1			73	0.56
	12	31	1.8	0,05	172	160	7.9	7.4	7.3	244	240	0.28	1,14	3.2	3.4	THE CONTRACT OF THE PERSON NAMED IN				73	0.55
	13_	36	1.8	0.04	160	156	7.8	7.4	7.3	240	232	0.31	1.10	3.4	3.4	600.	0	3	0	73	0.58
	14	59	1.9	0.04	160	160	7,5	7.2	7.1	240	240	0.34	1,13	3.8	3.4	3700	0	<u>  3  </u>	0	73	0.55
	<u> 15</u>	54	2.3	0.04	160	152	7.5	7.2	7.2	236	224	0.29	1.03	4.0	3.6	500	. 0	3	0	72	0.58
	16	45	2.3	0.04	156	156	7.5	7.3	7.2	232	232	0.29	1.04	3.6	3.5			ļ		72	0.59
	! 17	38	1.9	0.04	160	160	7.6	7.2	7.1	244	240	0.29	1.10	3.6	3.4	1000	0	3	0	72	0.58
	18	39	2.0	0.04	144	140	7.4	7.3	7.3	240	240	0.29	1.19	3.7	3.3	<u> </u>	<u> </u>	ļ		72	0.60
	19	31	1.8	0.05	176	168	7.5	7.3	7.3	276	276	0.29	1.15	3.7	3.4	<u> </u>	1			72	0.60
	20	27	2.1	0.05	168	160	7.6	7.4	7.3	252	252	0.30	1.14	3,8	3.4	900	0	3	00	72	0.59
	21	26	2.0	0.05	164	168	7.5	7.4	7.4	252	260	0.27	1.03	4.0	3.5	200	0	3	Ō	73	0.62
	22	27	1.8	0.05	164	164	7.7	7.2	7.4	252	260	0.32	0.96	4.2	3.7	300	D	3	0	74	0.60
	23	23	1.8	0.05	164	164	7.8	7.4	7.5	252	252	0.30	0.96	3.9	3.5	0	0	3	0	74	0.60
	24	20	2.0	0.04	172	164	7.6	7.2	7.1	244	240	0.28	0.98	3.5	3.3	900	0	3	0	75	0.61
	25	18	1.7	0.06	160	160	7.7	7.3	7.4	240	244	0.28	1.06	3.5	3.3		j	-		75	0.63
	26	17	1,6	0.05	160	160	7.6	7.2	7.5	240	240	0.31	1.07	3.5	3.3					76	0.56
	27	17	1.9	0.06	168	160	7.6	7.2	7.4	240	228	0.26	1,07	3.6	3.4	100	Q	3	0	76	0.56
- 1 Temperate distributions and the	28	17	2.0	0.06	160	160	7.5	7.3	7.5	220	208	0.21	1.10	3.4	3.3	0	0	3	0	76	0.57
	29	19	2.3	0.06	160	164	7.8	7.4	7.5	204	208	0.27	1,10	3.6	3.5	400	0	3	0	76	0,54
	30	19	2.6	0.06	152	156	7.7	7.4	7.5	200	200	0.21	1,08	3.6	3.4	0	0	3	0	77	0.56
				1											1	1					
ΓΟΤΑL																<del></del>		60			
AVE	AVE	28	2.0	0.05	165	162	7.7	7.4	7.4	238	236	0.29	1.08	3.5	3.5	581	0	3	0	72	0.57
VIAX	MIN	17	1.5	0.04	144	140	7.4	7.2	7.1	200	200	0.18	0.96	2.4	3.2	0	Ŏ	3	ŏ	67	0.54
VIIN	MAX	59	3.4	0.06	180	176	8.1	7.5	7.5	276	276	0.41	1.19	4.2	3.9	3700	Õ	3	ŏ	77	0.63
- •• -	•					•••		• • •		<b></b>		J.,,		****	0.0	0.00	•	•	-	, ,	

GRANITE CITY, ILLINOIS

July, 2005

		Ŧ	URBIDIT NTU	Υ	ALKAL PF	M		PH		HARDI PF	NESS PM		PM		PPM		PLANT	DIST. SY	STEM	WATER	
					МО	MO		-		******				TL-CL2			I Col/100m		NO.	TEMP.	PHOS.
~~	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	<u>&gt;1</u>	- <sub>T</sub>	7
	1 1	20	3.1	0.06	152	148	7.7	7.3	7.3	200	196	0.28	1.02	3.4	3.5	900	0	3	0	77	0.54
	12_	22	2.8	0.06	160	156	7,7	7.3	7.3	200	204	0.18	1.05	3.4	3.3		ļ			77	0.50
	3 4	24	3.4 2.4	0.06	192 152	188 160	7.7 7.7	7.3	7.3	200 224	200	0.24	1.06	3.3	3.5 3.4	· · · · · · · · · · · · · · · · · · ·	ļ			77	0.51
	5	26	2.7	0.06	160	148	7.7	7.3	7.0	228	212 216	0.27	1.07	3.4	3.1	1200	0	3	0	76	0.56
	6	26	3.7	0.06	160	156	7.7	7.3	7.3	236	216	0.29	1.09	3.6	3.5	200	0	3	0	78	0.53
- Printle - Landau	7	22	3.8	0.06	164	156	7.5	7.2	7.2	236	216	0.28	1.12	3.5	3.3	200	0	3	0	77	0.52
	8	24	2.4	0.08	164	160	7.7	7.4	7.4	232	220	0.31	1.05	3.6	3.4	100	0	3	0	1 77	0.57
	9	29	2.5	0.06	168	160	7.7	7,3	7.5	236	224	0.30	1.02	3.6	3.4	100			U	77	0.55
	10	60	2.5	0.06	160	160	7.6	7.3	7.5	230	216	0.26	1.01	3.6	3.4		<del> </del>			77	0.56
	11	100	2.3	0.06	164	160	7.7	7.3	7.3	228	236	0.25	1.02	3.7	3.6	200	0	3	0	78	0.54
	12	23	2.1	0.06	164	156	7.7	7,4	7.5	256	244	0.27	1.03	3.6	3.4	2000	Ō	3	0	78	0.57
	13	28	2.4	0.06	172	164	7.8	7.4	7.4	240	240	0.28	1.04	3.7	3.6	300	0	3	0	78	0.55
	14	15	2.4	0.06	176	164	7.6	7.2	7.3	252	256	0.29	1.01	3.5	3.3	100				78	0.55
	15	12	2.6	0.06	172	164	7.7	7.1	7,2	252	252	0.29	0.99	3.6	3.5	600	0	3	0	78	0.53
	16	10	2.1	0.06	164	164	7.7	7,2	7.2	252	252	0.30	1.01	3.6	3,4					78	0.53
	17	10	2.0	0.06	160	160	7.7	7.2	7.3	252	252	0.27	0.97	3.3	3,2					77	0.52
	18	10	1.9	0.06	172	172	7.7	7,2	7.3	240	232	0.27	1.02	3.5	3.4	300	0	3	0	76	0.53
	19	10	1,7	0.06	172	172	8.0	7.2	7.2	232	232	0.29	1.07	3.6	3.4	2500	0	3	0	79	0.47
	20	14	1.7	0.06	168	168	7.9	7.3	7.2	240	240	0.28	1.03	3.4	3.4	100	0	3	0	79	0.54
	21	15	2.1	0.07	176	160	7.9	7.3	7.3	232	224	0.21	1.04	4.1	3.5	800	0	3	0	79	0.56
	22	20	1.8	0.09	176	160	8.0	7.3	7.3	228	224	0.28	1.08	3.7	3,5	900	0	3	0	80	0.54
	23	15	1.8	0.06	184	164	8.0	7.3	7.3	232	232	0.29	1.04	3,5	3,4		<u> </u>			81	0.56
<del></del>	24	15	2.0	0.10	180	164	8.0	7.3	7.3	232	228	0.26	1.06	3.5	3.5		<del> </del>			81	0.54
	25	93	2.0	0.07	168	160	8,1	7.3	7.3	240	228	0,30	1.10	3.8	3.4	0	0	3	0	82	0.53
ļ	26	67	1.7	0.08	168	160	8.2	7.4	7.4	236	224	0.28	1.05	3.9	3.5	0	0	3	0	82	0.53
	28	105	1.9 1.9	0.17	144 160	140	8.6 8.6	7.5	7.5	240	236 216	0.31	1.08	3.7	3,4	100	0	3 3	0	80	0.50
	29	21	2.3	0.07	144	144	8.4	7.5	7.4	212	212	0.29	1.05	3.8	3.5	100	0	3	0	80	0.22
	30	57	2.4	0.07	152	140	8.1	7.3	7.3	212	212	0.30	1.05	3.0	3.4	100	<del> </del>	3	<u> </u>	80	0.21
<b></b>	31	183	2.1	0.07	152	140	8.0	7.3	7.3	220	212	0.32	1.14	3.1	3,3		<del> </del>			81	0.19
TOTAL	, 0,	1,100		<u> </u>	102	1.40	<u>V.</u>	l	1			10,04	1	0.1	1 0,0		<u> </u>	57			
AVE	AVE	36	2.3	0.07	165	158	7.9	7.3	7.3	232	226	0.27	1.05	3.5	3.4	530	0	3	0	79	0.50
MAX	MIN	10	1.7	0.06	144	140	7.5	7.1	7.3	200	227	0.18	0.97	3.6	3.4	0	Õ	3	Ö	76	0.50
MIN	MAX	183	3.8	0.17	192	188	8.6	7.7	7.3	256	228	0.32	1.14	3.6	3.4	2500	ŏ	3	õ	82	0.50

GRANITE CITY, ILLINOIS

AUGUST,2005

		T	URBIDIT NTU	Υ	ALKAL PF			РН		HARDI PF	NESS PM		ORIDE PM	RESIDU F	AL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
					МО	MO								TL-CL2		Col/100ml			NO.		PHOS.
	DATE		_ SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	<u>EFF</u>	SAMPLES	<u> </u>	F	
	1	319	2.4	0,07	156	152	8.1	7.3	7.3	220	212	0.29	1.03	2.6	3,1	0	0	3 -	0	81	0.21
		200	2.2	0.06	152	148	8.1	7.3	7.3	280	260	0.27	1.08	2.9	3.3	800	0	3	<u> </u>	81	0.20
	3	150	1.9	0.07	148	132	8.2	7.4	7.4	216	220	0.24	1.06	3.7	3.3	<u>o</u>	0	3	<u> </u>	82	0.25
	4	20	2.2	0.06	140	148	8.2	7.2	7.3	228	220	0.28	1.07	3.5	3.5	0	<u> </u>	3	0	82	0.24
	5	15	2.3	0.07	136	128	8.1	7,2	7.2	220	220	0.27	1.12	3.4	3.6	900	<u>                                      </u>	3	<u> </u>	82	0.24
	7	24	2.3	0.06	156 164	152	7,8	7.3	7.2	228	228	0.26	1.06	3.1	3.5			<u> </u>		82	0.22
	8	23	2.1	<del> </del>		160	8.0	7.2	7.2	228	228	0.25	1.05	3.2	3.5		0	3	0	81	0.21
- Interested to the second	9	16 14	2.7	0.10	160 160	140	8.1	7.2 7.3	7.4	224 224	216	0.29	1.02	2.7	3.3	0	0	3	0	81	0.22
-	10	14	2.5	0.08	164	160	8.3 8.3	7.3	7.5 7.5	224	224	0.29	1.05	3.1	3.3	<u> </u>	0	3	0	81	0.22
	11	14	2.1	0.09	160	152	8.4	7.4	7.4	236	216			3.0	3.3	200	0	3	0	81	0.23
	12	13	1.9	0.09	160	156	8.4	7.5	7.3	224	220 216	0.31	1.05	3.1	3.6	200	·	<del>                                     </del>		81	0.23
	13	13	1.8	0.07	164	168	8.4	7.4	7.4	220	216	0.28	1.10	3.2	3.5			<del>                                     </del>		81	0.22
	14	15	2.1	0.06	160	160	8.4	7.4	7.3	220	216	0.30	1.15	2.9	3.3			1		81	0.24
	15	14	2.0	0.06	164	144	8.4	7.4	7.4	216	204	0.30	1.09	2.6	3.2	200	0	3	0	81	0.22
	16	16	2.0	0.06	164	144	8.3	7.3	7.3	204	208	0.28	1.08	2.6	3.3	1000	0	3	0	81	0.21
	17	17	2.0	0.06	168	148	8.1	7.3	7.2	208	208	0.28	1.06	3.3	3.6	500	0	3	0	81	0.22
*******	18	20	1.9	0.06	96	152	8.0	7.2	7.2	208	200	0.36	1.06	3.4	3.7	200	Ö	3	0	80	0.23
	19	20	2.1	0.06	200	148	8.0	7.2	7.1	220	220	0.38	1.10	3.5	3.9	900	D	3	0	79	0.23
·	20	21	2.3	0.07	160	152	7.9	7.3	7.3	216	212	0.33	1.13	3.5	3.6		-			80	0.22
	21	23	2.1	0.07	150	156	7.9	7.3	7.3	216	208	0.31	1.06	3.9	3.8			i	·	78	0.25
	22	19	2.4	0.07	156	148	8.0	7.3	7.3	220	212	0.31	1.10	3.6	3.7	100	0	3	Ō	. 79	0.23
342,	23	16	1.9	0.07	148	128	8.0	7,3	7.4	200	200	0.31	1.10	3,5	3.4	200	0	3	0	. 78	0.23
	24	14	2.0	0.07	148	152	8.0	7.3	7.3	220	184	0.38	1.08	3.3	3.7	100	0	3	0	79	0.23
-9	25	21	2.1	0.07	160	152	7.9	7.2	7.3	212	212	0.29	1.13	3,2	3.6	400	0	3	0	79	0.24
	26	22	2.3	0.06	168	148	7.7	7.2	7.2	220	220	0.31	1.08	3,6	3.7	3300	0	3	0	80	0.24
	27	27	2.3	0.06	156	144	7.8	7.3	7.3	220	208	0.32	1.11	3.7	3.7					80	0.26
	28	39	2.4	0.06	160	152	7.8	7.3	7.3	248	248	0.35	1.13	3.3	3.7					80	0.26
	29	48	2.3	0.07	164	160	7.7	7.2	7.3	212	212	0.32	1.13	3.4	3.6	400	0	3	0	80	0.23
	30	35	2.2	0.09	160	144	7.7	7.2	7,3	218	200	0.30	1.06	2.2	3.5	2800	0	3	0	79	0.25
	31	31	2.3	0.05	160	140	7.8	7.2	7.3	200	200	0.27	1.07	3.1	3.6	400	0	3	0	79	0.24
TOTAL																					
AVE	AVE	40	2.2	0.07	157	149	8.1	7.3	7.3	221	215	0.30	1.08	3.2	3.5	564	0	66	0	80	0.23
MAX	MIN	13	1.8	0.05	96	128	7.7	7.2	7.3	200	215	0.24	1.02	3.2	3.5	0	0	3	0	78	0.23
MIN	MAX	319	2.7	0.10	200	168	8.4	7.5	7.3	280	214	0.38	1.15	3.2	3.5	3300	0	3	0	82	0.23

JURBAN DISTRICT

ACILITY NO. 163-5040

# GRANITE CITY F\_\_11

SEPT.,2005

# GRANITE CITY, ILLINOIS

		T	URBIDIT NTU	Y		PM		PH		HARDI Pi			ORIDE PM	-	PM		PLANT	DIST. SY		WATER	•
	DATE	DAW.	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	EFF	RAW	i Col/100ml EFF	NO. SAMPLES	NO. >1	IEMP.	PHOS.
	1	21	2.3	0.05	152	152	7.6	7.1	7.2	196	196	0.28	1.02	2.7	3.6	300	0	3	0,	78	0.25
	2	18	2.1	0.06	152	152	7.9	7.1	7.3	196	196	0.00	1.07	2.9	3.5	0	0	3	0	78	0.24
	3	16	2.3	0.05	152	140	8.0	7.2	7.3	200	200	0.33	1.04	2.9	3.5	<u> </u>			·····	78	0.23
	4	17	2.3	0.05	152	144	8.1	7.2	7.3	200	200	0.26	1.03	2.9	3.7					78	0.21
	5	20	2.2	0.05	152	152	7.9	7.2	7.3	208	200	0.27	1.08	2.9	3.6					79	0.23
	6	20	2.0	0.05	152	136	7.9	7.1	7.3	196	196	0.30	1.09	3.1	4.0	100	0	3	0	78	0.25
	7	16	1.8	0.05	144	140	8.1	7.2	7.4	208	208	0.27	1.05	3.2	3.8	300	0	3	0	79	0.22
	8	15	1.6	0.05	156	144	8.0	7.2	7.5	224	220	0.27	1.09	3.2	3.9	300	0	3	0	79	0.24
	9	16	1.6	0.05	156	144	8.1	7.2	7.5	200	196	0.24	1.06	3.2	3.7	200	0	3	0	78	0.23
	10	12	1.9	0.06	164	160	8.1	7.3	7.5	196	188	0.24	1.06	3.2	3.7					78	0.24
	11	11	1.9	0.06	160	160	8.0	7.3	7.4	204	196	0.18	1.07	2,9	3.5		ļ	-	<del></del>	78	0.22
	12	17	2.2	0.05	152	128	8.3	7.3	7.4	200	196	0.27	1.10	2.9	3.6	Q	0	3	0	78	0.22
	13	14	1.9	0.05	152	144	8.3	7.3	7.4	200	204	0.29	1.01	3.1	3.6	0	0	3	<u> </u>	78	0.22
	14	13	1.9	0.05	140	152	8.2	7.3	7.4	200	200	0.25	1.11	2.6	2.9	400	0	3	0	78	0.21
	15	13	1.9	0.05	152	140	8.1	7.1	7.2	200	200	0.30	1.11	3.1	3.4	0400		ļ <u>.</u>		78	0.22
	16 17	15 16	1.9	0.05	156	140	8.1	7.1	7.2	200	200	0.30	1.09	3.2	3.3	3100	0	3	<u> </u>	79 76	0.22
	18	17	2.0 2.4	0.05 0.05	156 156	148	8.0	7.1 7.1	7.2	200	200	0.31	1.05	3,2	3.3	<u> </u>	<del></del>	ţ		77	0.21
	19	19	2.0	0.05	144	144	8.0 7.9	7.1	7.3	208	196 208	0.27	1.15 1.02	2.9	3,3	0	0	3	0	78	0.22
	20	19	2.4	0.05	120	132	7.9	7.0	7.3	212	208	0.28	1.02	3.4	3,4	2200	0	3	0	78	0.26
	21	17	2.5	0.05	136	124	7.9	7.1	7.3	200	200	0.24	1.05	3.4	3.6	2100	1 0	3	0	77	0.24
	22	22	2.0	0.05	160	148	7.9	7.1	7.3	228	228	0.26	1.11	3.4	3.7	2900	ŏ	3	<del></del> 0	77	0.23
	23	13	1.9	0.05	160	144	7.8	7.1	7.4	208	212	0.30	1.11	2.9	3.1	300	<del></del>	3	<u>~</u>	77	0.22
	24	13	2.1	0.05	132	140	7.8	7.2	7.4	200	208	0.26	1.09	3.6	3.2		<del></del>			74	0.22
	25	14	2.2	0.05	136	140	7.8	7.1	7.4	196	192	0.24	1.08	3.5	3.2					76	0.22
	26	20	2.2	0.05	148	148	7.7	7.2	7.4	196	196	0.25	1.10	3.8	3.3	0	0	3	0	77	0.23
	27	13	1.7	0.06	148	148	7.7	7.2	7.4	196	196	0.36	0.96	3.7	3.6	2400	0	3	۵	76	0.24
	28	14	1.7	0.05	160	156	7.7	7.2	7.4	212	208	0.24	1.10	3.5	3,5	900	0	3 ]	0	76	0.25
	29	17	2.0	0.05	160	160	7.7	7.2	7.4	204	212	0.32	1.09	3.6	3.4	3800	0	3	0	75	0.26
	30	14	1.9	0.05	160	160	7.7	7,2	7.4	208	212	0.26	1.12	4.3	3.8	800	0	3	00	75	0.24
	31																				
TOTAL																		60			
AVE	AVE	16	2.0	0.05	151	145	7.9	7.2	7.4	203	202	0.26	1.07	3.2	3,5	1005	0	3	G	77	0.23
MAX	MIN	11	1.6	0.05	120	124	7.6	7.0	7.2	196	188	0.00	0.96	2.6	2.9	0	0	3	0 -	74	0.21
MIN	MAX	22	2.5	0.06	164	160	8.3	7.3	7.5	228	228	0.36	1.15	4.3	4.0	3800	0	3	0	79	0.29

GRANITE CITY, ILLINOIS

OCTOBER,2005

		τ	URBIDIT NTU	Y		PM		PH		HARDI PF	NESS PM		ORIDE PM		PM		PLANT	DIST. SY		WATER	
					MO	MO								TL-CL2		-	i Col/100ml		NO.		PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	>1	F	<del></del>
<u> </u>	1	14	1.5	0.05	164	156	7.9	7.3	7.5	196	196	0.23	1.05	3.7	3.5					74	0.22
ļ	2	14	2.0	0.05	160	152_	7.9	7.3	7.4	200	192	0,26	1.02	4.3	3.6					74	0.27
	3	14	1.9	0.05	160	160	7.8	7.4	7.4	200	196	0.26	1.02	4.4	3.7	200	0	3	0	74	0.29
	4	15	1.9	0.05	164	156	8.0	7.3	7.4	200	196	0.27	1.09	4.2	3.5	400	00	3	0	74	0.28
	5	14	2.1	0.05	156	144	7.9	7.4	7.4	204	196	0,24	1.13	3.9	3.7	900	0	3	0	74	0.28
	6	15	1.8	0.06	168	152	0.8	7.3	7.4	208	200	0.21	1,09	3,9	3.9	0	0	3	0	74	0.28
ļ	7	16	2.6	0.08	160	156	7,9	7.4	7,4	212	204	0.25	1.18	4.0	3.8	300	0	3	0	73	0.28
	8	16	1.6	0.05	164	152	7.8	7.4	7.4	212	200	0.19	1.10	4,0	3.8					74	0.30
	9	16	1.6	0.07_	164	160	7.9	7.4	7.5	208	216	0.21	1,10	3.9	3.8		ļ	<u> </u>		74	0.28
ļ	10	14	2.0	0.05	160	152	7.8	7.4	7.4	208	208	0.23	1.11	3.8	3.8	400	<u> </u>	3	0	72	0,30
	11	13	1.6	0.05	164	160	7.8	7.4	7.4	204	204	0,30	1.09	3.9	3.8	100	0	3	0	72	0.27
	12	13	1.8	0.05	160	160	7.7	7.3	7.3	208	208	0.28	1.08	3.9	3.9	200	0	3	0	72	0.30
	13	13	3.1	0.05	156	152	7.7	7.3	7.3	204	204	0.23	1.10	4.0	3.9	100	0	3	0	72	0.28
~	14	15	2.0	0.08	160	160	7.7	7.4	7,4	232	220	0.29	1.09	4.0	4.0	400	0	3	0	72	0.31
	15	15	1.7	0.05	160	160	7.9	7.4	7.4	220	216	0.26	1.09	4.0	3.7					72	0.28
	16	16	1.9	0.05	152	152	7.9	7.4	7.4	216	208	0.22	1.13	3.8	3.7					71	0.30
	17	16	2.1	0.04	156	148	7,9	7.4	7.4	212	212	0.26	1.09	3.8	3.6	100	0	3	00	70	0.31
	18	16	2.9	0.08	168	160	8.1	7.5	7.5	236	232	0,21	1.07	3.9	3.7	600	0	3	0	70	0,32
	19	18	3.4	0.05	160	160	8.0	7.5	7.5	212	204	0.27	1.07	4.0	3.7	200	0	3	0	69	0.30
	20	18	2.5	0.04	160	160	8.1	7.4	7.4	212	208	0.28	1.05	4.1	3.8	100	0	3	0	69	0.27
	21	19	2.4	0.04	160	160	8.0	7.4	7.4	208	204	0,30	1.10	4.2	3.7	6500	0	3	0	68	0.27
	22	19	2.1	0.04	168	160	7.9	7.4	7.4	204	200	0,22	1.09	4.2	3.8					68	0.30
	23	19	2.3	0.04	160	160	7.9	7.4	7,4	204	200	0.31	1.08	4,0	4.0					67	0.30
	24	20	2.4	0.05	164	148	7.8	7.3	7.3	208	204	0.27	1.11	4.1	4.0	0	0	3	0	67	0.30
	25	17	2.4	0.05	140	140	7.9	7.3	7.3	200	200	0.24	1.09	4.2	4.0	800	0	3	0	64	0,30
	26	16	2.6	0.05	136	132	7.8	7.3	7.3	180	184	0.20	1.11	4.3	3.8	500	0	3	0	63	0.28
	27	15	3.0	0.08	148	136	7.8	7.3	7.2	184	180	0.22	1.04	4.2	3.7	900	0	3	0	64	0.28
	28	14	3.1	0.07	148	140	7.8	7.3	7.3	184	184	0.25	1.11	4.1	3.9	500	0	3	0	63	0.29
	29	13	2.7	0.05	144	144	7.8	7.3	7.3	188	184	0,29	1.06	4,1	3.8			1		63	0.28
	30	13	2.1	0.05	144	140	7.8	7.3	7.3	192	188	0,29	1.04	3.9	3.6			1		62	0,28
	31	11	2.0	0.05	148	148	7.8	7.4	7.4	220	208	0.26	1.08	4.1	3.8	200	0	3	0	64	0.27
TOTAL																		69			
AVE	AVE	15	2.2	0.05	157	152	7,9	7.4	7.4	206	202	0.25	1.09	4.0	3.8	638	0	3	0	70	0.29
MAX	MIN	11	1.5	0.04	136	132	7.7	7.3	7.2	180	180	0.19	1.02	3.7	3.5	0	0	3	0	62	0.22
MIN	MAX	20	3.4	0.08	168	160	8.1	7.5	7.5	236	232	0,31	1.18	4.4	4.0	6500	0	3	0	74	0.32
			* *	-				-													

RURBAN DISTRICT

FACILITY NO. 163-5040

GRANITE CITY, ILLINOIS

NOVEMBER,2005

	TU	URBIDI1 NTU	ľΥ	ALKAL Pr	INITY PM		PH		HARD PI	NESS PM	_	ORIDE PPM		JAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	<b>t</b>	
					MO	MO								TL-CL2	TL-CL2	Col/100m	Col/100ml	NO.	NO.	TEMP.	PHOS,
	DATE		SET	EFF	RAW	EFF	_RAW_	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	·	SAMPLES	>1	<u> </u>	
	1	12	2.2	0.05	148	142	7.8	7.4	7.4	220	206	0.24	1.12	4.1	3.9	1700	0	3	Q	62	0.27
	2	11	2.5	0.06	148	146	7.7	7.4	7.4	220	212	0.24	1.07	3.8	3.7	1200	0	3	0	69	0.29
	3	11	1.9	0.06	144	144	7.8	7.4	7.4	224	220	0.21	1.07	3.8	3.6	500	0	3	0	63	0.26
	4	10	2.1	0.05	148	148	7.8	7.4	7.5	220	224	0.34	1.08	3.8	3.6	1100	0	3	0	64	0.27
	5	10	3.7	0.07	150	150	7.9	7.4	7.5	220	224	0.26	1.09	3.7	3.7					62	0.28
<u></u> _	6	11	2.6	0.06	140	132	8.0	7.4	7.5	192	196	0.22	1.04	3.7	3.6	<u> </u>				61	0.27
	7	10	1,9	0.06	156	152	7.9	7.5	7.5	212	212	0.24	0.99	3.7	3,8	1400	0	3	Q	62	0.29
	8	9	2.0	0.06	164	152	8.0	7.4	7.4	204	204	0.28	1.04	3.9	3.7	700	0	3	0	62	0.32
	9	10	2.0	0.06	152	152	8.1	7.4	7.3	208	200	0.24	1.13	3.9	3.8	700	0	3	0	62	0.28
	10	10	2.1	0.05	164	<u>  158</u>	8.1	7.2	7,2	216	216	0.27	1.03	3.9	3.6	-				62	0.29
	11	10	2.0	0.05	168	168	8.1	7.4	7.4	220	220	0.27	1.08	3.8	3.7		<u> </u>	ļ <b>.</b>		61	0.29
	12	11	2.2	0.05	168	168	8.1	7.4	7.4	208	212	0.26	1.06	3.8	3.6					61	0.29
	13	11	2.6	0.06	160	156	8.0	7.4	7.5	208	208	0.27	1.07	3.9	3.7		<u> </u>			61	0.27
	14	9	2.3	0.06	160	160	8.0	7.4	7.4	208	208	0.23	0.90	3.9	3.7	200	0	3 🗼	0	61	0.24
	15	12	2.1	0.06	152	: 152	8.0	7.4	7.4	208	200	0.22	1.02	3.8	3.6	3500	0	3	0	60	0.26
	16	13	2.6	0.06	156	152	7.9	7.5	7.4	208	200	0.22	1.23	4.0	3.7	3500	0	3	0	59	0.27
	17	10	2.5	0.06	156	152	8.0	7,4	7.4	208	204	0.21	1.08	4.0	3.8	0	0	3	0	59	0.26
	18	10	3.1	0.06	164	152	7.9	7.4	7.4	220	208	0.19	1.04	3.9	3.6	500	0	3	0	58	0.29
	19	8	2.3	0.07	168	148	8.0	7.5	7.4	208	204	0.24	1.27	3.7	3.6					58	0.28
	20	8	2.6	0.07	168	152	8.0	7.5	7.4	204	196	0.19	1.06	4.4	3.6					57	0.28
	21	7	2.3	0.06	160	148	7.9	7.4	7.3	196	200	0.22	1.07	3.6	3.5	200	0	3	0	57	0.28
	22	7	2.1	0.05	152	148	7.9	7.4	7.4	204	204	0.18	1.02	3.6	3.7	200	0	3	0	57	0.27
	23	8	2.0	0.05	164	148	8.0	7.4	7.4	208	200	0.22	1.03	3.2	3.5					56	0.25
	24	15	1.8	0.05	160	152	8.0	7.4	7.3	212	220	0.20	0.94	3,4	3.5		1			56	0.26
	25	14	1.5	0.05	168	160	8.1	7.5	7.4	220	220	0.25	1,05	3,7	3.8		1			55	0.25
	26	15	1.6	0.05	164	148	8.1	7.5	7.4	208	220	0.16	1.00	3.6	3.7					55	0.25
	. 27	17	1.8	0.05	160	156	8.3	7.6	7,3	204	200	0.22	1,00	3.5	3.7	i				55	0.26
	28	88	2.2	0.06	160	148	8.6	7.6	7.5	200	200	0.21	0.92	3.1	3.5	2900	. 0	3	0	55	0.24
	29	73	3.1	0.06	156	140	8.4	7.5	7.5	200	200	0.19	0.96	3.1	3.4	9100	0	3	0	54	0.25
	30	4	2.9	0.05	168	160	8.5	7.5	7.4	220	228	0.22	0.92	3.4	3.8	6000	0	3	0	54	0.24
	31			7. F.X	·		<del></del>	1	1	T		1	7.5.5	7-7-1	1	1-7/7-7-7-	<del></del>				
TOTAL	6 m of Table same		*	·						·			diana manana man	. sters concern resources	- 8-4	**************************************		51			*
AVE	AVE	15	2.3	0.06	158	151	8.0	7.4	7.4	210	209	0.23	1.05	3.7	3.7	1965	0	3	0	59	0.27
MAX	MIN	4	1.5	0.05	140	132	7.7	7.2	7.2	192	196	0.16	0.90	3.1	3.4	0	0	3	Ō	54	0.24
MIN	MAX	88	3.7	0.07	168	168	8.6	7.6	7.5	224	228	0.34	1.27	4.4	3.9	9100	Ō	3	ō	69	0.32

ORT CERURBAN DISTRICT

FACILITY NO. 163-5040

GRANITE CITY, ILLINOIS

DEC., 2005

		Т	URBIDIT NTU	Υ	ALKAL Pi	PM		PH		HARDI Pf	NESS PM		ORIDE PM		PM		PLANT	DIST. SY	STEM	WATER	
					МО	МО								TL-CL2			il Col/100m		NO.	TEMP.	PHOS.
	DATE	RAW	SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW		SAMPLES	<u>&gt;1</u>	F	
 	1	31	2.7	0.05	148	156	8.4	7.5	7.5	228	220	0.19	0.84	3.5	3.8	3100	0	3	0	54	0.25
	2	25	2.3	0,05	172	160	8.6	7.6	7.5	224	224	0.22	1.11	3.6	3.9	1500	0	3	00	53	0.25
,	3	24	3.1	0.06	168	156	8.5	7.5	7.5	220	220	0.23	1.13	4.0	3.7	<del> </del>				52	0.26
	4	23	2.6	0.04	148	152	8.4	7.5	7.4	240	240	0.22	1.16	3.8	3.7		<del></del>			52	0.24
	5	20	2,7	0.05	180	160	8.3	7,6	7.4	228	228	0.26	1.11	3.7	3.7	1200	0	3	0	52	0.24
	6	19	2.6	0.06	180	182	8.4	7.5	7.5	232	232	0.26	1.12	3.8	3.7	1400	<u> </u>	3	0	54	0.24
	7	19	2.8	80.0	180	168	8,5	7.6	7.5	240	240	0.22	1.06	4.1	3.7	0	0	3	0	52	0.25
	8	19	3.2	0.05	184	164	8.5	7.5	7.5	252	252	0.22	1.07	3.9	3.6	300	<u> </u>	3	0	50	0.24
	9	18	5.0	0.06	176	160	8.5	7.5	7.4	242	248	0.24	1.02	4.0	3.7	400	0	3	0	52	0.23
	10	17	3.3	0.06	180	164	8.2	7.5	7.5	248	248	0.21	1,11	4,1	3.8					52	0.25
-	11	18	3.4	0.05	172	164	8.2	7.6	7.6	248	248	0.26	1,13	4.0	3.7					54	0.26
1	12	17	3.4	0,05	180	168	8.3	7.6	7.5	232	228	0.18	1.08	4.0	3.7	1000	0	3	0	47	0.26
ļ	13	15	2.5	0.05	176	160	8.3	7.6	7.5	228	224	0.19	1.06	3.9	3.7	900	0	3	0	47	0.25
	14	15	2.7	0.06	180	160	8.3	7.6	7.5	240	228	0.21	1.03	3.9	3.6	500		3	0	46	0.24
ļ	15	15	2.8	0,06	180	164	8,3	7.5	7.4	240	232	0.21	1.05	3.9	3.7	2400	0	3	0	46	0.27
	16	16	2.9	0.07	188	160	8.3	7.6	7.6	240	232	0.36	1.08	4.1	3.7	400	0	3	0	46	0.23
	17	15	2.7	80.0	180	164	8,4	7.6	7.5	260	252	0.23	1,06	4.2	3.7		<u> </u>			47	0.23
	18	15	2.8	0.07	182	162	8.4	7.6	7.6	250	240	0.22	1.10	3.9	3,6	<u> </u>	<u> </u>	+		46	0.25
ļ	19	14	3.0	80,0	188	168	8.4	7.7	7.6	248	240	0,28	1.10	3.8	3.6	600	0	3	0	46	0.25
	20	12	2.9	0.08	184	176	8.3	7.7	7.6	244	240	0.18	1,06	3.9	3.7	700	0	3	0	46	0.27
	21	12	2.6	0.08	140	168	8.1	7,5	7.4	260	240	0.27	0.99	3.9	4.0	300	0	3	0	46	0.27
	22	11	2.5	0.06	194	190	8.2	7.4	7.4	252	240	0.25	1.02	3.9	3.8	500	0	3	00	46	0.27
	23	11	2.7	80.0	194	168	8.2	7.5	7.5	244	248	0.22	1.04	3.8	3.7		and a community of the second	-		46	0.28
	24	12	2.6	0.05	196	180	8.1	7.5	7.5	220	224	0,25	1.12	3.9	3.7	1		1		45	0.28
naana rasa sa	25	12	2.6	0.05	200	180	8.2	7.5	7.5	268	260	0.27	1,15	3.9	3.6					45	0.24
	26	12	2.3	0.05	180	168	8.1	7.4	7.5	248	240	0.24	1.10	3.8	3.7		L			45	0.27
	27	11	2.0	0.05	192	184	8.1	7.5	7.4	244	256	0.26	1.12	3.6	3.4	600	0	3	0	45	0.26
	28	22	2.2	0.05	164	156	8.0	7.5	7.5	240	240	0,25	1.10	3.7	3.6	100	00	3	0	45	0.26
	29	11	2.1	0.05	176	160	8.0	7.5	7.5	240	248	0.21	1.07	3.8	3.6	100	0	3	0	45	0.25
	30	11	2.1	0.08	180	168	8.1	7.5	7.4	260	268	0.27	1.07	3.6	3.5	400	0	33	0	47	0.27
	31	11	2.3	0.05	188	176	7.9	7.5	7.4	248	256	0.22	1.06	3.5	3.5					47	0.25
TOTAL		•														_		60			
AVE	AVE	16	2.8	0.06	178	167	8.3	7.5	7.5	242	240	0.24	1.07	3.9	3.7	820	0	3	0	48	0.25
MAX	MIN	11	2.0	0.04	140	152	7.9	7.4	7.4	220	220	0.18	0.84	3.5	3.4	0	0	3	0	45	0.25
MIN	MAX	31	5.0	0.08	200	190	8.6	7.7	7.6	268	268	0.36	1.16	4.2	4.0	3100	0	3	0	54	0.25
WIN	MAX	31	<b>5.</b> 0	0.08	200	190	<i>0.</i> 5	(./	0.1	∠08	208	U,30	1.16	4.2	4.0	\$100	U	J	U	95	+

# GRANITE CITY, ILLINOIS

JANUARY,2004

		Т	URBIDIT NTU	Y	alkai Pi	PM		PH		HARD Pi	NESS PM		ORIDE PM	RESIDU	IAL CL2 PPM		PLANT	DIST. SY		WATER	
					MO	MO								TL-CL2			nt Col/100ml		NO.		. PHOS.
	DATE	<del></del> ,	SET	EFF	RAW	EFF	RAW	SET	<u> </u>	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	>1	F	10.52
	1 3	20 19	4.3 4.6	0.04	188	176	8.2 8.2	7.8 7.9	7.7	264	252	0,20	1,00	4,1 4,6	3.7	000	0	3	0	44	0.57 0.56
	3	18	4.6 4.6	0.04	188	180	8.2	7.9	7.7	252 268	256 274	0.31	1.06	3.9	3.9	900	<del></del>	3		44	0.57
	4	68	4.9	0.04	208	192	8.2	7.9	7.7	272	260	0.27	1.06	1.9	3.1	<u> </u>	:	e ten many		42	0.54
	5	22	7.4	0.05	160	156	8.0	7.7	7.6	200	212	0.36	1.11	3.0	3.6	2500	. 0	4	0	47	0.54
	6	58	9.6	0.05	160	156	8.0	7.7	7.7	220	212	0.41	1.10	4.0	4.1	5800	Ö	3	Ō	47	0.55
	7	51	9,0	0.05	144	140	7.9	7.7	7.6	228	220	0.26	1.08	6.7	3.5	5100	0	3	0	35	0.55
	8	39	7.2	0.05	148	140	7.9	7.7	7.6	224	220	0.22	1.06	3.5	3.8	2300	0	3	0	35	0.56
	9	30	7.4	0.06	144	140	7.9	7.8	7.7	220	220	0.20	1.08	2.6	3.3	2700	0	3	0	35	0.55
	10	22	6.5	0.05	152	144	7.7	7.9	7.7	220	220	0.23	1.10	3.0	3.8					36	0.55
	11	19	6.0	0.05	148	144	7.7	7.9	7.7	224	224	0.21	1.01	3.0	3.4	ļ		L		36	0.58
	12	20	6,2	0.05	208	200	7.9	8.0	7,8	260	260	0.23	1.10	3.5	3.8	1700	<u> </u>	4	<u>Q</u>	35	0.52
	13	21	6.4	0,05	192	184	7.7	8.0	7.8	256	256	0.23	1.09	2.2	3.2	1200	<u> </u>	3	<u> </u>	35	0.55
	14	22	5.3	0.06	196	188	7.9	8.0	7.8	260	260	0.29	1.06	4.6	3,2	2000	<u> </u>	3	<u> </u>	35	0.57
soften continue a popular	15	20	5.0	0.05	180	172	7.9	8.0	7.8	232	232	0.24	1.07	4.2	3.4	200	0	3	0	37	0.55 0.54
	16	18	5.0 5.4	0.06 0.06	184 188	184 184	7.9 7.9	8,1 8.0	7,8 7.8	240 220	240	0.28	1.08	4,7 3,4	4.1	900	0	3	<u></u>	1 38	0.54
	18	44	5.8	0.06	196	180	7.9	8.0	7.8	240	220 240	0.26	1.10	2.7	3.9	<del> </del>	<del>-  </del>			37	0.53
	19	29	6.3	0.06	180	172	7.8	7.9	7.8	224	232	0.39	1.04	4.6	3.9	6500	0	4	0	35	0.53
	20	21	5.9	0.08	184	176	7.7	8.0	7.9	220	224	0.26	1.02	4.5	4.4	500	Ŏ	3	0	35	0.52
	21	25	7.0	0.06	176	168	7.8	7.8	7.7	216	220	0.32	1.06	5.9	4.1		j	0	Ŏ	35	0.54
. Problems to	22	22	5.8	0.06	180	160	7.5	7.8	7.7	240	236	0.29	1.11	4.3	3.7	800	Ō	3	0	40	0.54
	23	18	6.5	0.05	180	172	7.8	7.9	7.7	240	252	0.29	1.12	4.0	3.9	900	0	3	0	37	0.55
	24	15	5.7	0.05	160	168	7.9	7.9	7.8	244	244	0.32	1.10	4.2	3.8					37	0.51
	25	14	5.2	80.0	188	192	7.9	8.0	7.9	248	240	0.25	1.05	4.0	3.6					38	0.54
	26	14	6.5	0.05	192	176	7.8	7.8	7.9	256	240	0.21	1.08	3.5	3.8	400	0	4	0	36	0.52
	27	14	6.2	0.05	164	173	7.7	8.0	7.8	260	244	0.30	1,06	4.3	3.8	2300	: 0	3	0	36	0.54
	28	14	6.8	0.06	188	180	8.0	8.0	7.9	248	240	0.25	1.03	4.8	3.8	700	0	3	0	36_	0.52
	29	14	6,6	0.05	184	180	7.9	8.0	7.8	244	240	0.24	1.08	3.7	4.0	300	0	3	0	35	0.53
	30	12	6.5	0.05	184	184	8.0	7.9	7.8	240	240	0.23	1.09	4.2	3.7	800	0	3	0	35	0.54
	31	12	7.1	0.06	187	180	0.8	8.0	7.9	244	240	0.22	1.07	4.4	3.7	<u></u>	(	04		34	0.54
TOTAL		0.4	0.0	0.05	470	4770	~ ~	7.0	7.0	000	000	0.07	4.07	0.0	0.77	4000	•	64		20	0.54
١VE	AVE	24	6.2	0.05	178	172	7.9 7.5	7.9	7.8 7.6	239	238	0.27	1.07	3.9	3.7	1925	0	3 0	0	38 34	0.54 0.51
/AX	MIN MAX	12 68	4.3 9.6	0.04 0.08	144 208	140 200	7.5 8.2	7.7 8.1	7.6 7.9	200 272	212 274	0.20 0.41	1.00 1.12	1.9 6.7	3.1 4.4	200 6500	0 0	4	0	34 47	0.51
ΔIN	IVIAA	OO	9.0	0.00	200	200	0.2	0.1	6,1	Z1 Z	214	U.4 I	1.12	0.7	4,4	9900	U	**	U	41	0.50

GRANITE CITY PLANT

ACILITY NO. 163-5040

GRANITE CITY, ILLINOIS

FEB., 2004

		τ	URBIDIT NTU	ſΥ		PM		РН		HARD P	NESS PM		ORIDE PM		PM		PLANT	DIST, SY		WATER	
					MO	МО						- 4144		TL-CL2			i Col/100mi		NO.		PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	<u>EFF</u>	RAW	EFF	SET	EFF	RAW	<u>EFF</u>	SAMPLES	>1	F	0.54
	1	12	6.7 7.3	0.14	188	176	8.4	7.8	7.7	216	224	0.20	1.02	4.6	4.1	500				34 35	0.54
	3	12	6.4	0.05	196	184	8.5 8.4	7.9 7.8	7.8	232 248	236 244	0.23	1.05	4.4	3.7	500 7100	0	3	0 	34	0.53
	4	11	6.6	0.05	200	188	8.4	7.9	7.8	252	244	0.23	1.14	3.0	3.8	2100	0	3	<u> </u>	35	0.54
	5	10	6.5	0.05	192	184	8.3	7.9	7.8	244	244	0.23	1.04	4.1	3.7	1000	0	3	ŏ	36	0.53
	6	11	4.7	0.05	196	184	8.3	7.8	7.7	252	252	0.23	1.09	4.9	3.7	4100	0	3	0	34	0.52
	7	10	4.0	0.06	192	184	8.3	7.8	7.7	248	248	0.21	1.10	3.0	3.7	4100	<del> </del> .	ļ		34	0.52
	8	9	2.8	0.07	188	180	8.1	7.9	7.8	240	240	0.23	1.03	4.1	3.7	<u> </u>		<del></del>	. j jenje	34	0.53
	9	8	2.6	0.08	140	148	8.1	7.9	7.8	248	248	0.32	1.03	4.3	3.8	700	0	. 4	0	33	0.56
	10	8	2.8	0.05	196	184	8.3	7.9	7.7	240	240	0.31	1.02	4.2	3.8	4300	0	3	0	35	0.55
	11	9	3.1	0.05	164	180	8.3	7.8	7,7	248	260	0.26	1,05	4.1	3.7	1400	0	3	0	35	0.55
	12	11	3.5	0.05	200	188	8.0	7.8	7.7	240	248	0.28	1.05	4.2	3.8	1800	0	3	0	35	0.53
,	13	10	3.7	0.05	200	184	8.2	7,8	7.7	260	260	0.27	1.09	4.2	3.8	4400	<u> </u>	3	0	37	0.54
to the objection groups,	14	11	3.4	0.05	200	196	8.3	7.8	7.7	280	284	0.26	1.08	4.3	3.8		<u> </u>	100000000000000000000000000000000000000		33	0.53
	15	11	3.2	0.04	200	186	8.3	7.8	7.7	280	260	0.25	1.12	4.3	3.7	ļ	<u>i</u>			33	0.54
	16	10	3.5	0.05	204	188	8.4	7.8	7,7	280	280	0.26	1.06	4.2	3.8	900	0	4	0	37	0.51
	17	9	3.8	0.05	216	188	8.2	7.8	7.7	280	280	0,23	1.01	4.2	3.8	2000	0	3	0	38	0.56
	18	10	3.5	0.05	204	192	7.3	7.9	7.8	268	280	0.19	0.98	4.3	3.8	2600	0	3	<u> </u>	38	0.54
	19	11	2.7	0,06	208	192	8.4	7,9	7.8	276	280	0.20	1.07	4.2	3.8	2400	0	3	0	40	0,53
	20	14	2.9	0.04	212	196	8.1	7.9	7.7	264	272	0.27	1.11	4.1	3.6	1100	0	3	0	39	0.47
Calaboration and the Control of the Control	21	12	3.6	0.04	180	184	8.3	7.9	7.8	240	240	0.28	1,13	4.1	3.7	<u> </u>	<del> </del>	<u>i</u>		39	0.52
	22		2.9	0.04	184	184	8.3	7.8	7.7	240	248	0.23	1.03	4.0	3.7					39	0.54
	23	13	2.9	0.04	180	188	8.1	7.8	7.7	240	244	0.28	1.07	4.1	3.6	7800	0	4	<u> </u>	39	0.55
	24	13	3.1	0.04	184	188	8.3	7.8	7.7	236	248	0.26	1.07	4.2	3.7	7700	0	3	0	39	0.55
	25	22	3.5	0.04	180	184	8.1	7.8	7.6	240	240	0.25	1.00	3.9	3.5	4500	0	. 3	0	38 68	0.53
	1 26	26	3.9	0.04	184	188	8.0	7.8	7.6	248	256	0.23	1.04	4.0	3.6 3.5	7900 14000	0	3	<u>0</u>	40	0.49
<u>_</u>	27	32 29	4.0 3.8	0.04	204	192	8.0 8.0	7.7	7.6 7.6	256 252	256 252	0.24	1.04	3.7 3.9	3.5	14000	0	3	U	40	0.53
resource and an exercise						192	·	<del></del>		····	·			3.5	3.4		<del></del>	·i		40	0.53
	29	30	3.8	0.04	200	192	8.0	7.7	7.6	248	248	0.21	1.04	3.5	3.4	<del> </del>	<del> </del>	ļ		<u> 40</u>	0,00
a many anti-franchista de la company	30								Processor and the second		i .k		<del></del>		<u> </u>	· · · · · · · · · · · · · · · · · · ·		<del> </del>			
TOTAL	_  31	,i.			i		·····	i		1	<u>,                                    </u>			. y	1	1	<u>!</u>	64			<del></del>
AVE	AVE	14	4.0	0.05	192	185	8.2	7.8	7.7	252	254	0.24	1.06	4.1	3.7	3915	0	3	0	38	0.53
MAX	MIN	8	2.6	0.03	140	148	7.3	7.0 7.7	7.6	216	224	0.19	0.98	3.0	3.4	500	Ö	3	n	33	0.47
MIN	MAX	32	7.3	0.14	216	196	7.3 8.5	7.9	7.8	280	284	0.15	1.14	3.0 4.9	3. <del>4</del> 4.1	14000	0	4	0	68	0.56
	.,,,,,,,		,	V. 1 .		,,,,	0.0	1.0	1.0	200	A-0 1	0.02	• . , *	1.0	.,,		•	•	-		2

#### GRANITE CITY, ILLINOIS

MARCH,2004

		T	URBIDIT NTU	Υ	ALKAL Pr	PM		PH		HARD Pi	NESS PM		ORIDE PM	RESIDU F	AL CL2 PPM		PLANT	DIST. SY	STEM	WATER	ł
					MO	МО								TL-CL2	TL-CL2	Col/100m	l Col/100mi	NO.	NO.	TEMP.	PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	>1	<u> </u>	
~	1 1	29	3.8	0.04	188	180	7.9	7.7	7.6	252	248	0.25	1.06	3.9	3,2	1300	0	4	0	41	0.52
	2	27	4.3	0.04	180	172	7.9	7,7	7.5	248	240	0.27	1,06	3.5	3.2	700	0	3	0	46	0.54
	3	29	3,9	0.04	184	172	8.2	7.7	7.5	228	216	0.27	1,08	3.5	3.2	1800	0	3	0	42	0.55
	4	35	3.7	0.05	180	168	8.0	7.7	7.5	220	220	0.26	1.08	3.6	3.2	700	0	3	0	48	0.55
	5	169	2.9	0.06	156	148	7.9	7.6	7.4	200	200	0.24	1.05	3.2	3.3	2900	0	3	0	50	0.53
	6	157	4.0	0.04	160	168	7.9	7.4	7.3	208	208	0.22	1,14	3.2	3.3	ļ				49	0.55
	7	160	4.3	0.04	168	164	7.9	7.4	7.3	200	200	0.24	1.13	3.1	3.3	alternative to Transmission (447).	i			52	0.53
	8	185	4.8	0.05	160	140	7.8	7.4	7.3	240	240	0.25	1,14	3.1	3.6	1700	0	4	0	51	0.54
	9	159	4.5	0.06	160	156	7.4	7.4	7.3	200	188	0.27	1.08	3.2	3.7	1800	0	3	0	50	0,54
	10	134	3.8	0.05	156	148	7.8	7.4	7.6	220	212	0,20	1.09	3.5	3.9	2400	0	3	0	50	0.54
	11	121	3.8	0.05	160	148	7.8	7.5	7.5	224	240	0.27	1.08	3.6	3.8	1100	0	3	0	50	0.53
	12	104	4.3	0.04	160	148	7.9	7.5	7.6	232	228	0.28	1.05	3.6	3.7	1400	0	3	0	48	0.54
	13	87	3.1	0.04	160	156	7.7	7.5	7.5	240	240	0.23	1.04	3.8	3.8		141-20-2-2-1			49	0.54
	14	81	3.5	0.04	160	156	7.8	7.5	7.5	240	228	0.23	1,11	4.0	3.9	annon use as non separateurs bide first f				49	0.54
	15	69	3.2	0.04	164	160	7.7	7.5	7.5	240	236	0.22	1.15	4.2	4.0	500	0	4	00	49	0.54
	16	58	3,5	0.04	164	160	7.8	7.5	7.5	240	240	0.21	1.14	4.1	3.9	400	0	3	0	50	0.52
	17	49	2.5	0.05	160	160	7.8	7.6	7,6	244	240	0.21	1.17	4.1	3.9	500	0	3	0	50	0.51
	18	44	3.0	0.05	164	164	7.6	7.6	7.5	244	240	0,26	1.07	4.3	4.1	300	0	3	0	50	0.56
~	19	41	3.0	0.05	164	160	7,8	7.6	7.5	240	240	0.29	1,07	4.2	4,1	1000	0	3	0	50	ļ
effective appropriate	20	42	3.8	0.05	160	152	7.8	7,6	7.5	240	232	0.30	1.13	4.1	4.0				., .,	50	
	21	45	3.5	0.05	156	156	7.8	7.6	7.5	236	232	0.27	1.10	4.2	4.1					50	ļ
	22	37	3.3	0.05	172	164	8.0	7.6	7.5	240	240	0.23	1.10	4.1	4.0	900	0	4	0	44	0.51
	23	31	3.1	0.05	172	164	8.0	7.6	7.6	244	244	0.23	1.10	4.2	4.0	300	0	3 !	0	44	0.51
	24	31	3.1	0.05	172	168	8.1	7.6	7.7	240	240	0.24	1,10	4.2	3.8	800	0	3	0	44	0.51
	25	31	3.6	0.06	172	164	8.0	7.6	7.6	240	240	0.24	1.09	4.1	3.8	500	0	3	0	45	0.53
,	26	39	3.4	0.05	172	164	0,8	7.5	7.5	236	236	0.23	1.12	4.2	3.8	8600	0	3	0	48	0.54
	27	75	2.6	0.04	160	148	7.9	7.5	7.4	228	228	0.21	1.11	4.1	3.8					50	0.57
	28	57	2.4	0.04	168	156	7,9	7.5	7.5	240	232	0.20	1.07	4.2	3.8			j		51	0,55
	29	77	2.4	0.04	156	160	7.8	7,5	7.5	212	216	0.24	1.06	4.2	3.6	6900	0	4	0	51	0.53
	30	80	2.3	0.05	164	160	7.9	7.5	7.5	216	212	0.27	1.13	4.0	3.6	8800	0	3	0	53	0.53
	31	85	2.1	0.04	168	160	7.9	7.5	7.6	224	220	0.30	1.08	4.3	3.7	2200	0	3	0	52	0.53
TOTAL																		74			
4VE	AVE	76	3.4	0.05	166	159	7.9	7.5	7.5	231	228	0.25	1.10	3.9	1.0	2065	0	3	0	49	0.54
MAX	MIN	27	2.1	0.04	156	140	7.4	7.4	7.3	200	188	0.20	1.04	3.1	3.2	300	0	3	0	41	0.51
MIN	MAX	185	4.8	0.06	188	180	8.2	7.7	7.7	252	248	0.30	1.17	4.3	4.1	8800	0	4	0	53	0.57

GRANITE CITY, ILLINOIS

APRIL, 2004

		Т	URBIDIT NTU	Υ	ALKAL PI	INITY PM		PH		HARD PI	NESS PM	-	ORIDE PM	RESIDU !	IAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
					МО	MO								TL-CL2	TL-CL2	Col/100ml	Col/100ml	NO.	NO.	TEMP.	PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	<u>EFF</u>	RAW	EFF	SAMPLES	>1	. F	
	1	82	1.9	0.04	184	172	7.9	7.6	7.6	224	220	0.29	1.10	4.4	3.8	1000	0	3	0	52	0.54
	2	86	2.1	0.04	176	<u> 168</u>	8.0	7.5	7,6	220	224	0.25	1.08	4.4	3.9	1000	0	3 !	0	52	0.55
	3	87	2.1	0.04	180	164	8.0	7.6	7.6	256	252	0.19	1.08	4.3	3.7		· ·			56	0.53
	4	83	1.9	0.06	180	172	7,9	7.6	7.7	272	252	0.28	1.06	4,6	3.9				L-140-41-4-7-4-4-140-8-8-8	56	0.54
	5	79	1.5	0.04	180	176	8.1	7.6	7.6	250	260	0.24	1.07	4.5	3.6	700	0	4	0	57	0.54
	6	72	1.6	0.04	180	172	8.0	7.6	7.6	260	260	0.20	1.06	4.3	3.8	500	0	3	0	56	0.52
	7	73	1.5	0.03	176	168	8.0	7.5	7.5	220	232	0.29	1.09	4.3	3.5	4700	0	3	0	55	0.53
	8	66	1.6	0.04	180	180	8.0	7.5	7,6	232	236	0.24	1.05	. 4.2	3.7					56	0.49
	9	59	1.4	0.04	180	180	7.9	7.5	7.5	232	232	0.31	1.06	4.2	3.7					56	0.51
	10	53	1.1	0.04	160	160	8.0	7.5	7.6	240	236	0.30	1.10	4.4	3.7					56	0.53
	11	51	1.2	0.04	164	160	8.0	7.6	7.7	240	240	0.28	1.09	4,4	3.7					56	0.55
	12	48	1.2	0.04	168	168	8.0	7.6	7.7	268	260	0.34	1.07	4.5	3.7	500	0	4	0	55	0.54
	13	48	1.3	0.04	160	160	8.0	7.6	7.7	232	232	0.33	1.05	4.2	3.7	2000	0	3	0	56	0.52
	14	34	1.2	0.04	160	164	7.9	7.6	7.5	236	232	0.29	1.04	4.0	3.8	700	0	3	0	56	0.52
	15	33	1.4	0.05	168	164	8.0	7.6	7.7	224	228	0.32	1.03	4.1	3.6	500	0	3	0	54	0.51
	16	23	1.5	0.05	160	152	8.0	7.5	7.6	212	212	0.30	1.01	3.8	3.5	1700	0	3	0	54	0.49
	17	19	1.6	0.05	160	156	7.9	7.5	7.7	208	208	0.31	1.06	3.7	3.6			1		54	0.52
	18	19	1.6	0.05	160	160	8.0	7,5	7.6	212	208	0.30	1.04	4.0	3.7					53	0.52
	19	18	1.6	0.05	152	148	8.2	7.5	7.6	192	192	0.25	1.02	3.9	3.5	200	0	4	0	59	0.52
	20	16	1.6	0.05	156	152	8.2	7.6	7.8	200	196	0.22	1.00	4.4	3.5	2300	0	3	Q	60	0.50
	21	15	2.2	0.05	160	164	8.1	7.6	7.7	200	192	0.26	1.10	3.1	3.2	700	00	3	0	- 58	0.52
	22	14	1.8	0.05	148	136	8.2	7.5	7.5	192	192	0.29	0.99	2.8	3.1	500	0	3	0	58	0.53
	23	14	1.2	0.05	152	140	8.2	7.5	7.6	192	192	0.32	1.02	2.7	3.4	5300	0	3	0	. 58	0.53
	24	11	1.0	0,05	152	144	8.3	7.6	7.6	196	196	0.31	1.08	3.1	3.4					- 59	0.52
	25	14	1.2	0.04	156	148	8.1	7.5	7.5	200	200	0.30	1.05	3.2	3.6					59	0.50
	26	25	1.9	0.04	156	152	7.9	7.5	7.5	208	208	0.29	1.06	3.2	3.7	3600	0	4	0	. 59	0,54
	27	29	2.2	0.04	160	152	7.9	7,5	7.5	232	232	0.27	0.99	3.0	3.5	1000	0	3	0	58	0.54
	28	26	2.4	0.04	160	148	7.9	7.5	7.5	228	216	0.32	1.01	3.4	3.4	900	0	3	0	59	0.53
	29	23	3.4	0.05	160	144	8.1	7.5	7.5	220	216	0.33	1.03	3.2	3.4	500	0	3	0	59	0.53
	30	22	2.3	0.05	160	148	8.0	7.7	7.6	220	216	0.32	1.11	4.9	3.8	500	0	3	Ō	59	0.53
!	31				, , , , , , , , , , , , , , , , , , , ,		en exilite Transco	i manaka kila samua. Z	Anna Pariston Comp	·			1	1						!	
TOTAL				1			F-1		L	٠,								64			
AVE	AVE	41	1.7	0.04	165	159	8.0	7.6	7.6	224	222	0.28	1.05	3.9	3.6	1440	Ö	3	0	57	0.52
MAX	MIN	11	1.0	0.03	148	136	7.9	7.5	7.5	192	192	0.19	0.99	2.7	3.1	200	ō	3	Ď	52	0.49
MIN	MAX	87	3.4	0.06	184	180	8.3	7.7	7.8	272	260	0.34	1.11	4.9	3.9	5300	ŏ	4	õ	60	0.55
			•	0.00		,	0.0	• • • •						1.0	0.0		-	•	-		

GRANITE CITY, ILLINOIS

MAY, 2004

		71	URBIDIT NTU	Y	ALKAL PF	PM		PΗ		HARDI PF	NESS PM	1.4	RIDE PM		PM		PLANT	DIST. SY		WATER	=
	0.55	C	057	سو سو شو	MO	MO	D 4111	ACT			mee	C 4111		TL-CL2			Col/100ml			TEMP.	PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	<u>EFF</u>	RAW	EFF	SAMPLES	>1	F	0.50
	1	27	2.1	0.06	168	156	8.0	7.7	7.7	220	220	0.34	1.12	4.5	3.5	<del> </del>	<del></del>			60 60	0.53
	3	29	2.1	0.06	160 160	148	7.9	7.7	7.6	220	220	0.30	1.06	4.0	3.5	3800	0	4	0	60	0.51 0.53
	4	27 23	2.4	0.06	160	160	8.0 8.0	7.7	7.6 7.5	224 220	220 220	0.39	1.13	3.9 4.0	3.6 3.6	900	0	3	0	60	0.52
·	5	18	2.5	0.06	148	156	8.0	7.8	7.6	220	220	0.40	1.20	4.0	3.4	1100	0	3	0	60	0.54
	6	18	2.5	0.07	152	156	8.1	7.9	7.7	224	220	0.24	1.14	4.2	3.5	1300	0	3	0	61	0.52
	7	18	2.4	0.06	156	156	8.0	7.8	7.6	220	220	0.26	1,14	4.0	3.6	200	0	3	0	61	0.52
,	8	17	1.7	0.07	160	164	8.1	7.8	7.6	220	220	0.33	1.09	4.0	3.5	- 200	<del>                                     </del>			61	0.52
	9	17	1.7	0.07	162	168	8.1	7.8	7.5	232	224	0.23	1.05	3.8	3.6	1	<del></del>		·	62	0.51
arm our constitution and the	10	17	1.7	0.07	144	148	8.3	7.8	7.5	208	200	0.30	1.06	3.9	3.5	300	ρ	4	0	64	0.52
	11	17	1.7	0.07	164	152	8.2	7.8	7.5	200	196	0.28	1.07	3.8	3.5	200	ñ	3	0	63	0.50
	12	16	1.5	0.06	164	148	8.3	7.8	7.5	204	208	0.27	1.07	3.7	3.4	1200	Ö	3	0	64	0.49
A	13	17	1.7	0.06	160	148	8.2	7.7	7,5	200	200	0.29	1.05	3.9	3.6	400	0	3	0	64	0.47
	14	120	1.9	0.06	144	152	8.0	7.6	7.5	172	200	0.29	1.08	3.8	3.5	1500	ō	3	0	64	0.50
	15	76	1.8	0.05	148	152	7.8	7.5	7.4	200	200	0.29	1.07	3.7	3.5	1			adding to the second	64	0.49
	16	35	1,5	0.05	152	148	7.8	7.5	7.4	204	200	0.27	1.11	3.5	3.6	-	i			64	0.49
	17	23	1.6	0.05	156	148	8.1	7.6	7.4	200	208	0.28	1.12	3.6	3,5	4500	0	4	0	64	0.49
	18	21	1.9	0.05	160	148	7.9	7.6	7.4	208	212	0.31	1.09	3.6	3.5	400	0	3	0	64	0.49
	19	48	2.0	0.06	176	160	7.8	7.6	7.4	204	208	0.35	1.11	3.7	3,6	3800	0	3	0	65	0.48
	20	65	2.4	0.06	144	144	7.8	7.5	7.3	204	204	0.29	1.11	3.6	3,6	4000	0	3	0	65	0.49
	21	51	2.7	0.06	152	136	7.8	7.5	7.3	220	204	0.28	1.11	3.6	3.3	12300	0	3	0	66	0.51
	22	46	2,1	0.06	156	140	7.7	7.6	7.3	216	216	0.31	1.09	3.7	3.3					67	0.49
	23	48	2.0	0.05	152	152	7.7	7.6	7.3	208	208	0.25	1.12	3.7	3.6					66	0.53
	24	62	2.6	0,05	152	140	7.7	7,5	7.3	208	208	0.31	1.13	3.6	3.5	1400	0	4	00	68	0.52
	25	60	2.4	0.05	152	140	7.7	7.5	7.4	216	220	0.35	1,16	3.8	3.4	200	0	3	0	67	0.51
~~ · ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~ ~~	26	95	2.6	0.05	160	152	7.8	7.6	7.4	228	220	0.30	1.18	3.9	3.5	4000	0	.3	0	68	0.53
	27	138	2.3	0.05	132	136	7.7	7,5	7.4	212	220	0.35	1.08	3.7	3.6	1600	0	3	0	71	0.52
	28	153	2.7	0.05	140	128	7.4	7.4	7.3	180	188	0.22	1.06	3.8	3.6	7100	0	3	0	72	0.52
	29	113	2.5	0.07	124	124	7.3	7.2	7.3	160	160	0.25	1.07	3.6	3.7	ļ	ļ			68	0,50
	30	110	2.7	0.07	124	132	7.5	7.2	7.4	180	180	0.29	1.08	3.8	3.4	-	ļ			70	0.50
	31	122	3.2	0.07	128	128	7.4	7.2	7.3	184	180	0.36	1.09	3.7	3.3	<u> </u>	<u> </u>			70	0.50
TOTAL																	_	_	_		
AVE	AVE	53	2,2	0.06	152	148	7.9	7.6	7.4	207	207	0.30	1.11	3.8	3.5	2510	0	3	0	65	0.51
MAX	MIN	16	1.5	0.05	124	124	7.3	7.2	7.3	160	160	0,22	1.05	3.5	3.3	200	0	3	0	60	0.47
MIN	MAX	153	3.2	0.07	176	168	8.3	7.9	7.7	232	224	0.40	1.21	4.5	3.7	12300	0	4	0	72	0.54

\_\_CRURBAN DISTRICT

FACILITY NO. 163-5040

GRANITE CITY, ILLINOIS

JUNE, 2004

		T	URBIDIT NTU	Y	ALKAL Pi	PM .		PН		HARDI PF	NESS PM		ORIDE PM		IAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
					MO	MO								TL-CL2			I Col/100m		NO.	TEMP.	PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	<u>&gt;1</u>	F	
;	+	87	2.7	0.08	156	144	7.6	7.4	7.4	184	184	0.31	1.05	3.8	3.5	900	0	3	0	69	0.51
	2	97	3.9	0.07	148	152	7.6	7.5	7.4	200	200	0.30	1.13	3.9	3.7	1900		3	0	69	0.53
ļ	3	121	3.6	0.06	140	148	7.5	7.3	7.4	184	188	0.26	1.11	4.1	3.8	1500	.   . 0	3	<mark>0</mark> .~	69	0.54
	5	98 97	4.7 4.4	0.06	144	148	7.5	7,3	7.4	188	188	0.29	1.03	4,1	3.8		0	3	0	69	0.54
<del> </del>	6	85	3.8	0.06	148 148	152	7.4	7.2	7.3	188	188	0.29	1.11	3.7	3.6	ļ	<del></del>			69	0.54
ļ	7	68	3.7	0.08	152	152	·	7.3	7.3	196	196	0.29	1.13	3,7	3.7	1600	<del></del>	<del> </del>		69	0.53
ļ	8	63		0.08	160	152   152	7.5	7.5	7.6	200	196	0.29	1.08	4.0	3.7		1-0	4 4	0	69	0.55
	9	54	4.0 5.0	0.08	156	152	7.6 7.7	7,5	7.6 7.6	180	172	0.33	1.14	4.2	3.5	1900	<u> </u>	3		<u> </u>	0.56
ļ	10	53	3.6	0.08	156	160	7.9	7.5 7.5	7.5	220 172	224	0.28	1.08	4.8	3.9	900 1200	0	3	0 0	70 70	0.50
·	11	57	3.6	0.08	168	156	7.9	7,4	7.5	200	184 204	0.30	1.09	3.9 4.4	3.9	900	0	3	0	71	0.52
	12	55	3.3	0.03	164	156	7.8_	7,4	7.5	208		0.33	1.09	4.3	3.6	900	ļ <u>v</u>			72	0.55
	13	68	3.0	0.07	164	156	8.0	7.5	7.6	208	200 200	0.31	1.12	4.1	3.5	·		<del></del>		72	0.54
	14	66	3.6	0.06	164	160	7.6	7.5	7.5	220	216	0.28	1.14	3.9	3.6	700	1-0	4	0	74	0.54
<u> </u>	15	71	4.0	0.06	152	152	7.7	7.6	7.6	216	216	0.28	1.13	3.5	3.6	600	1 0	3	0	76	0.53
ļ	16	60	3.7	0.06	156	152	7.6	7.6	7.6	212	220	0.29	1.13	3.8	3.9	1000	0	3	0	74	0.55
	17	71	3.8	0.06	160	152	7.6	7.5	7.6	208	208	0.23	1.17	4.2	4.0	2400	1 0	3	0	76	0.56
/	18	83	4.1	0.06	152	152	7.7	7.5	7.6	216	216	0.32	1.08	4.2	4.0	1400	0	3		77	0.54
	19	80	3.0	0.07	164	156	7.8	7.5	7.6	208	208	0.29	1.10	3.8	3.7			1		74	0.53
	20	73	2.6	0.06	152	152	7.7	7.5	7.6	216	212	0.29	1.10	3.8	3.7			<u> </u>		73	0.56
	21	63	2.4	80.0	160	160	7.7	7.6	7.6	192	192	0.29	1.07	3.8	3.7	1100	0	4	0	74	0.57
	22	43	2.7	0.07	160	160	7.6	7.6	7.6	200	192	0.30	1.13	4.0	3.8	700	0	3	0	74	0.57
	23	40	2.8	0.08	164	160	7.6	7.6	7.6	196	188	0.29	1,11	4.2	3.8	900	0	3	0	74	0.57
	24	52	2.5	0.07	140	140	7.7	7.6	7,6	220	228	0.28	1.09	4.3	3.9	1100	0	3	0	74	0.57
	25	49	2.7	0.09	160	148	7.7	7.3	7.3	212	208	0.29	1.10	4.0	3,5	1400	0	3	0	73	0.55
	26	48	2.4	0.09	160	152	7.9	7.3	7.3	180	188	0.26	1,10	4.0	3.5		1			74	0.56
	27	51	2.6	0.08	160	152	7,7	7.3	7,4	192	196	0.26	1,11	3.9	3.5		Ī			74	0.56
	28	52	2.5	0.08	152	156	7.9	7.3	7.4	196	188	0.26	1.06	3.9	3.7	900	0	4	0	74	0.55
	29	58	2.0	0.08	160	156	7.9	7.3	7.4	192	188	0.27	1.08	4.0	4.0	500	0	3	0	74	0.54
	30	55	2.5	0.09	160	156	7.7	7.3	7.3	192	196	0.24	1.11	3.8	3.4	600	0	3	0	_74	0.54
L				1	<u> </u>												1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		****	1	
TOTAL																		51			
AVE	AVE	67	3.3	0.07	156	153	7.7	7.4	7.5	200	19 <del>9</del>	0.29	1.10	4.0	3.7	1148	0	3	0	72	0.54
MAX	MIN	40	2.0	0.06	140	140	7.4	7.2	7.3	172	172	0.23	1.03	3.5	3.4	500	0	3	0	69	0.50
MIN	MAX	121	5.0	0.09	168	160	8.0	7,6	7.6	220	228	0.33	1.17	4.8	4.0	2400	0	4	0	77	0.57

GRANITE CITY, ILLINOIS

July,2004

		Ţ	URBIDIT NTU	Υ	ALKAL Pi	.INITY M		PΗ		HARD Pl	NESS PM		ORIDE PPM	RESIDU	IAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	<b>E</b> FF	TL-CL2 SET	TL-CL2 EFF	Col/100m RAW	Col/100ml EFF	NO. SAMPLES	NO. >1	TEMP.	PHOS.
	1	44	2.4	0.08	160	160	7.8	7.6	7.3	196	196	0.30	1.09	3.8	3.4	400	0	3	0	74	0.56
· · · · · · · · · · · · · · · · · · ·	2	36	2.2	0.08	160	160	7.7	7.6	7.5	200	200	0.25	1.12	3.7	3.4	700	0	3	0	73	0.56
	3	53	2.1	0.07	160	156	7.9	7.7	7.6	204	200	0.24	1.13	3.8	3,5			-		74	0.60
-	4	55	2.0	0.07	164	160	7.9	7.6	7.5	200	196	0.25	1.12	3.8	3,4					74	0.58
	5	56	2.3	0.08	168	156	7.9	7.5	7.4	212	216	0.22	1.08	3.9	3.5					74	0.55
	6	85	2.3	0.09	176	156	7.6	7.5	7.3	236	220	0.31	1.08	3.8	3.3	12900	0	3	0	75	0.55
	7	65	2.5	0.08	176	156	7,5	7.3	7.3	220	212	0.31	1.12	3.9	3.1	10900	0	3	0	76	0.57
	. 8	52	2.4	0.06	188	176	7.3	7.3	7,4	240	236	0.28	1.08	4.1	3.2	2200	0	2	0	78	0.56
	9	32	2.0	0.06	172	168	7.9	7.7	7,4	240	232	0.31	1.09	4.0	3.3	700	0	3	0	80	0.54
,	10	32	2.2	0.06	164	168	7.8	7.6	7.7	240	232	0.31	1,07	4.0	3.3				·	80	0.55
	11	39	2.2	0.06	180	172	7.7	7.6	7.7	236	232	0.32	1.13	4.1	3,3					78	0.55
	12	35	2.1	0.06	172	164	7.7	7.7	7.6	240	240	0.22	1.08	4.1	3.4	700	0	4	0	75	0.51
	13	38	2.4	0.06	173	164	7.8	7.7	7.4	228	228	0.25	1.13	4.3	3.5	600	0	3	00	<u>  75</u>	0.56
	14	37	3.0	0.07	168	164	7.8	7.7	7.7	220	224	0.19	1.08	4.2	3.5	1100	0	3	00	76	0.57
	15	43	3.2	0.06	168	176	7.8	7.7	7.7	236	240	0.31	1.09	4.2	3.5	800	0	3	0	77	0.58
	16	44	2.7	0.06	172	168	7.9	7.7	7.7	232	240	0.29	1.11	4.3	3.6	900	0	3	0	76	0.56
	17	37	2.6	0.06	160	168	7.8	7.7	7.7	232	228	0.39	1.14	4.4	3.7	<u> </u>				77	0.59
	18	41	2.7	0.06	160	156	7.7	7.7	7.7	224	224	0.29	1.14	4.3	3.7					77	0.57
	19	41	2.8	0.06	172	180	7.7	7.7	7.7	228	228	0,38	1.16	4,4	3.7	400	0	4	0	77	0.57
	20	33	2.8	0.07	180	176	7.9	7.7	7.6	236	236	0.36	1.11	4,4	3.7	500	0	3	0	77	0.57
	21	28	2.8	0.06	176	172	7.9	7.7	7.6	232	232	0.31	1,08	4.3	3.7	600	0	3	0	77	0.58
	22	27	2.6	0.06	180	176	7,9	7.8	7.7	232	232	0.32	1.07	4.3	3.7	100	00	3	0	77	0.58
	23	24	2.5	0.06	176	: 172	8.0	7.8	7.7	240	240	0.34	1.10	4.3	3.7	1100	0	3	00	78	0.58
سيرين والاستان المتعادمة فيداد المتعادمة المتعادمة المتعادمة المتعادمة المتعادمة المتعادمة المتعادمة	28	28	2.3	0.06	180	172	8.0	7.8	7.7	224	228	0.31	1.09	4.1	3.6	í				78	0.58
	25	28	2.4	0.06	180	176	8.0	7.8	7.7	220	220	0.34	1.10	3.9	3.8					78	0.59
·	26	27	2.7	0.06	176	172	8.0	7.8	7.7	224	224	0.48	1.03	4.0	4.0	600	0	4	0	79	0.59
	27	26	2.2	0,06	168	164	8.0	7.8	7.7	240	244	0.27	1.14	4.1	3.8	400	0	3	0	76	0.59
	28	25	2.3	0.06	180	176	8.1	7.8	7.6	224	228	0.27	1.06	4.5	3.8	500	0	3	0	79	0.57
	29	23	2.4	0.06	172	168	8.1	7.9	7.7	228	228	0.27	1.00	4.6	3.8	500	0	3	0	77	0.56
···	30	30	2.6	0.06	180	168	8.1	7.9	7.7	224	224	0.35	1.00	4.5	3,6	1500	0	3	0	76	0.60
	31	31	2,6	0.07	160	160	8.0	7.8	7.7	240	244	0.31	1.02	4.5	3.7					76	0.58
TOTAL																		65			
AVE	AVE	39	2.5	0.07	172	167	7.8	7.7	7.6	227	226	0.30	1.09	4,1	3.6	1814	0	3	0	77	0.57
MAX	MIN	23	2.0	0.06	160	156	7.3	7,3	7.3	196	196	0.19	1.00	3.7	3.1	100	0	2	0	73	0.51
MIN	MAX	85	3.2	0.09	188	180	8.1	7.9	7.7	240	244	0.48	1.16	4.6	4.0	12900	0	4	0	80	0.60

GRANITE CITY PLANT

**FACILITY NO. 163-5040** 

GRANITE CITY, ILLINOIS

AUGUST,2004

		Т	URBIDIT NTU	Y	ALKAL PF			PΗ		HARD	NESS PM		ORIDE PM	RESIDU	IAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	2
			1410		мо	МО				, ,	***	, ,	4 191	TL-CL2		Col/100ml	Col/100ml	I NO.	NO.		PHOS.
	DATE	RAW	SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW		SAMPLES	>1	F	
	1	26	2.4	0.06	180	176	8.1	7.8	7.7	240	240	0.36	1.02	4.5	3.7					76	0.57
	2	22	2.3	0.06	180	180	8.1	7.9	7.6	240	232	0.28	1.07	4.4	3.7	800	0	4	0	78	0.42
	3	19	2.4	0.06	184	180	8.0	7.9	7.6	224	212	0.32	1.03	4.4	3.8	1500	0	3	0	76	0.45
	4	19	2.6	0.06	188	180	8.0	7.9	7.6	232	224	0.42	0.99	4.2	3.6	2800	0	3	0	76	0.54
	5	22	2.3	0.06	188	184	7.9	8.0	7.7	232	236	0.30	1.09	4.1	3.6	7800	0	3	0	77	0.52
	6	22	2.4	0.06	188	184	8.1	8.0	7.7	232	224	0.37	1.08	4.1	3.7	900	0	3	0	77	0.51
	7	27	2.6	0.06	172	168	7.9	8.0	7.6	260	252	0.30	1.07	4.0	3.9					77_	0.56
	8	34	3.0	0.07	164	164	7.6	7,9	7.6	240	244	0.38	1.04	4.0	3.8	ļ				77	0.55
	9	36	3.0	0.06	160	160	7.7	7.8	7.6	222	240	0.32	1.06	4.1	3.7	600	0	4	<u> </u>	76	0.53
	10	39	3.0	0.07	168	164	7.7	7.8	7.5	248	240	0.27	1.02	4.0	3.6	1000	0	3	0	76	0.53
	11_	45	3,4	0.06	160	148	7.5	7.4	7.2	232	232	0.31	1.08	4.4	3.8	1300	0	3	0	77	0.57
;	12	41	3.7	0.07	160	156	7.6	7.4	7.2	204	204	0.27	1.02	4.4	3.5	700	0	3	0	75	0.55
	13_	34	3.4	0.06	164	160	7.9	7.4	7.2	220	208	0.28	1.00	4.2	3.7	1400	0	3	0	75	0.55
	14	26	2.9	0.06	164	160	8.0	7.4	7.3	208	208	0.29	1.06	4.3	3.8					76	0.54
	15	23	2.8	0,07	176	168	7.9	7.5	7.5	228	224	0.31	0.99	4.1	3.3					76	0.52
	16	22	2.9	0.07	180	172	8.3	7.6	7.5	224	220	0.27	1.08	4.4	3.8	900	0	4	0	75	0.53
ļ_ <del>-</del>	17	23	2.9	0.09	180	176	8.0	7.6	7.5	220	224	0.33	1.14	4.4	3.7	600	0	3	<u> </u>	75	0,53
	18	23	2.7	0.09	180	176	8.3	7.7	7.6	228	224	0.30	1.17	4.5	3.7	300	0	3	<u> </u>	75	0.49
	19	23	2.5	0.09	172	168	8.3	7.7	7.5	228	224	0.29	1.15	4.3	3.8	100	0	3	0	74	0,49
	20	19	2.4	0.10	176	160	8.4	7,7	7.4	228	224	0.28	1.15	4.3	3.8	800	0	3	0	74	0.46
	21	21	2.3	80.0	164	160	8.4	7.6	7.4	220	216	0.29	1,12	4.1	3.8					74	0.41
	22	22	2.3	0.07	176	164	8.3	7.5	7.3	224	224	0.24	1.09	4.0	3.5	400				75	0.45
	23	23	2.8	0.06	180	160	8.3	7.4	7.3	228	220	0.31	1.13	3.9	3.8	100	0	3	<u> </u>	75 75	0.45
	24	19	2.6	0.06	188 176	180 160	8.3	7.5 7.6	7,4 7.4	236	240	0.27	1.13	3.9	3.8	2100 5300	0	3	0	74	0.45
\		17	2.6	0.06	180		8.2		7.3	240	228	0.25	1.08 1.09	4.0	3.9	8100	0	3	0	74	0.44
	26	30	2.9	0.06		156	8.1	7.5		228	228	0.22			3.9	2800	0	3	n	75	0.41
	27	32	3.4	0.06	172 160	160 148	8.1 7.9	7.5 7.3	7,3 7,2	232 220	230	0.24	1.14	4.0	3.9	2000	ļ	3	- 0	75	0.44
	29	69 159	3.6 3.0	0.06	148	136	7.8	7.3	7.1	192	228 192	0.26	1.08	3.8	3.7	·		<del> </del>		75	0.54
\	30	171		0.06	124	104				160		0.29	1.04	<del></del>	3.5	2000				74	0.53
-	31	130	2.5 2.5	0.06	152	140	7.5 7.6	7.2 7.1	7.1	172	160 172		1.05	2.2	3.9	2000	0	3	0	75	0.52
TOTAL	1 31	130	<u> </u>	0.00	102	1 140	7.0		7.2	112	172	0.27	1.05	2.0	0.8	2000	<u> </u>	67		10	_ تریک
AVE	AVE	40	2.8	0.07	171	163	8.0	7.6	7.4	224	222	0.29	1.08	4.0	3.7	1995	0	3	0	75	0,50
MAX	MIN	17	2.8	0.07	124	103	7,5	7.0 7.1	7. <del>4</del> 7.1	160	160	0.29	0.99	2.0	3.7	100	Ö	3	n n	74	0.41
MIN		171	2.3 3.7	0.00	188	104 184	7.5 8.4	7.1 8.0	7.7	260	252	0.42	1.17	4.5	3.9	8100	0	4	0	7≈ 78	0.57
MITTAL	IVIAA	171	3.1	0.10	100	104	0.4	D.U	1.1	200	202	. ↓,4∠	1.17	4.0	3.8	o iuu	U	~	U	10	0.01

GRANITE CITY, ILLINOIS

SEPT.,2004

			URBIDIT NTU	Y		M		РН		HARD Pi	NESS PM		ORIDE PM	RESIDU	PPM		PLANT	DIST. SY	STEM	WATER	ŧ
			<b>)</b>		МО	MO								TL-CL2			Col/100m		NO.		PHOS.
a survey of the same	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF_	RAW	EFF	SET	EFF	RAW	<u>EFF</u>	SAMPLES	>1	<u>F</u>	0.50
	1	105	2.1	0.06	132	140	7,5	<u>7.1</u>	7,2	160	152	0.27	1.10	2.3	3,8	2800	0	3	0	76	0.53
	2	83 74	2.3 2.2	0.06 0.08	120 136	112	7.4 7.6	7.1 7.1	7.2	168 176	164 168	0.30	1.13	2.2	3.9	1500 1100	0	3 3	0	75	0.55
	3	60	2.4	0.08	152	140	7.7	7.1	7.3	204	200	0.28	1,14	2.3	3.8	7100	ļ <u>v</u>	3		75 75	0.55
	5	50	2.3	0.08	148	132	7,7	7.2	7.4	204	188	0.33	1.12	2.3	3.6	<del> </del>	<del></del>	<del> </del>		76	0.60
	6	41	2.2	0.07	152	140	7.7	7.3	7.3	208	208	0.28	1.12	2.4	3.5	<del></del>	<u> </u>	t		75	0.59
	7	37	2.2	0.07	152	144	7.6	7.2	7.4	196	196	0.26	1.06	2.5	3.4	500	0	4		75	0.59
	8	32	2.1	0.06	156	148	7.6	7.3	7.4	196	196	0.27	1.09	2.2	3.6	1000	0	3	0	75	0.57
	9	26	1.8	0.07	156	148	7.9	7.3	7.4	196	196	0.28	1.15	2.2	3.7	400	0	3	0	75	0.70
	10	26	1.8	0.07	160	156	8.1	7.4	7.5	200	200	0.24	1.09	2.4	3.9	300	0	3	0	75	0.35
	11	25	1.6	0.08	152	148	8.3	7,5	7.4	200	200	0.26	1.05	2.1	3.9					75	0.55
	12	23	1.8	0.07	148	128	8.3	7.5	7.4	200	192	0.27	1.08	1.9	3.8		1			74	0.55
	13	23	1.8	0.07	152	140	8.3	7.6	7.4	192	188	0.26	1.07	1,7	3.9	100	0	4	0	74	0.54
	14	25	1.8	0.06	144	140	8.4	7.6	7.5	180	176	0.26	1.08	1.7	3.7	400	0	3	0	74	0.53
	15	26	1,8	0.07	152	136	8.3	7.6	7.4	188	184	0.25	1,13	1,6	3.7	500	0	3	0	74	0.52
	16	25	1.4	0.07	156	136	8.6	7.6	7.4	188	188	0.19	1.10	1.7	3.8	400	0	3	<u> 0</u>	75	0.53
	17	24	1.7	0.06	156	152	8.5	7.6	7.4	188	188	0,25	1.05	1.9	3.9	1900	1 0	3	0	75	0.50
·	18	24	1,8	0.06	152	140	8.3	7.4	7.4	212	192	0.20	1.07	2.3	3.8	ļ		<u> </u>		75	0.50
	19	25	1,7	0.06	156	140	8.3	7.4	7.3	200	196	0.26	1.08	2.2	3.8	100		<del> </del>		75	0.53
	20_	26	2.0	0,06	160	140	8.3	7.4	7.3	200	200	0.24	1.12	2.7	3.3	100	1 0	4	<u>0</u>	74	0.53
	21	26	1.8	0.06	160	148	8.3	7,6	7.4	208	196	0.22	1.08	3.9	3.7	100	<u> </u>	3		73	0.54
	22	28	1.9	0.07	168	156	8.3	7.6	7.5	200	200	0.31	1.09	4.3	3.9	100	0	3	0	74 74	0.55
	23	30	1.8 1.8	0.06	158	144	8.0	7.5	7.5	200	196	0.19	1,18	4.1	3.8	300	0	3	0	75	0.53
	24 25	26 28	1.5	0.06	164 152	168 156	8.0 8.2	7.6 7.6	7.4 7.5	216 212	204 196	0.22	1.10	4.1	4.2	300	U		<u> </u>	75	0.56
	26	30	1.6	0.06	156	152	8.1	7.5	7.4	224	200	0.20	1.10	4.2	4.0		1	<del> </del>		75	0.50
	27	27	1.6	0.06	164	148	8.2	7.6	7.5	208	204	0.20	1.10	4.2	3.9	100	0	4	0	74	0.55
	28	26	1.6	0.08	160	160	8.0	7.6	7.5	208	212	0.24	1.08	4.1	4.0	300	0	3	0	74	0.56
	29	27	2.2	0.06	160	148	8.0	7.6	7.5	224	216	0.24	1.08	4.1	4.1	100	0	3	0	74	0.54
	30	38	2.1	0.06	172	160	8.0	7.6	7.4	208	208	0.21	1.04	4.1	4.1	300	0	3	0	73	-0.55
	31			0.00	1,7,7	100			<u>```</u>		T				17		· <del>  </del>				
TOTAL							h-,_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			A		<u></u>	<del> </del>			3		67			
AVE	AVE	36	1.9	0.07	154	144	8.1	7.4	7.4	199	193	0.25	1.10	2.8	3.8	614	0	3	0	75	0.54
MAX	MIN	23	1.4	0.06	120	112	7.4	7.1	7.2	160	152	0.19	1.04	1.6	3.3	100	0	3	0	73	0.35
MIN	MAX	105	2.4	0.08	172	168	8.6	7.6	7.5	224	216	0.33	1.18	4.3	4.2	2800	0	4	0	76	0.70

GRANITE CITY, ILLINOIS

OCTOBER.2004

		Т	URBIDIT NTU	Υ		PM		PH		HARDI PE	NESS PM		ORIDE PM		PPM		PLANT	DIST. SY	STEM	WATER	
					MO	MO			are are an			5.114		TL-CL2			I Col/100m		NO.	TEMP.	PHOS.
~ <del>~</del>	DATE	RAW	SET	EFF	RAW_	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	<u>&gt;1</u>		10.55
	1 7	74	1.6	0.07	168	156	7.9	7.4	7.4	200	200	0.22	1.08	4.1	4.1	700	. 0	! 3	0	73	0.55
	2	146	2.0	0.07	168	160	7.6	7.2	7.2	200	200	0.23	1.05	4,0	3.9	 				73	0.56
	3	162	2.0	0.07	164	156	7.5	7.1	7.1	204 196	204	0.21	1.06	4.2	3.9	200		-+		72	0.55
	4	54 110	2.1 1.9	0.08	156	140	7.5	7.2 7.1	7.2 7.0	188	196 184	0.23	0.98	4.0	3.9 4.0	200 100	0	- 4	00	71	0.53
	<u>5</u> 6	54	1.9	0.08	160	148	7.5 7.9	7.1	7.3	188	188	0.23	0.96	4.0	3,9	100	. 0	3	v	71	0.51
		39	1.9	0.08	148	144	7.9	7.6	7.5	188	188	0.21	1.01	4.0	3.9	100	0	3 3	<u>u</u>	70	0.50
4	. 7 8	40	2.4	0.06	156	152	7.9	7.6	7.5	188	184	0.24	1.01	4.1	4.1	700	0	3	0	70	0.54
manufacture of the second	9	39	2.5	0.06	156	156	7.9	7.6	7.5	188	188	0.21	1.05	4.1	4,1	100	ļ <u>U</u>	. J		70	0.52
e e e como tan	10	27	2.2	0.06	156	144	8.0	7.6	7.4	196	196	0.23	1.20	4.0	3.9	· 				69	0.55
	11	27	2.2	0.06	152	148	8.0	7.6	7.5	200	200	0.23	0.93	4.0	3.9	300	0	4	0	69	0.54
	12	28	1.8	0.09	160	148	8.0	7.6	7.5	200	200	0.26	1.11	4.0	3.9	300	0	3	0	68	0.56
	13	27	1.7	0.08	160	140	7.9	7.5	7.3	208	200	0.23	1.16	4.0	4.0	1300	0	0	Ö	67	0.57
	14	27	2.5	0.07	168	156	7.9	7.5	7.3	216	208	0.24	1.08	4.0	4.1	700	Ō	3	Ö	66	0.54
	15	29	2.5	0.07	164	160	7.8	7.4	7.3	204	200	0.24	1.10	4.1	4.0	600	0	3	0	64	0.56
	16	33	2.4	0.07	160	152	7.8	7.5	7.3	204	212	0.26	1,11	3.9	3.9					67	0.55
	17	28	2.0	0.06	164	152	8.0	7.5	7.3	208	208	0.23	1.11	4.1	4.0	A CONTRACTOR OF THE STATE OF TH				66	0.54
	18	22	1.8	0.07	172	160	8.0	7.5	7.3	224	212	0.23	1,16	4.0	4.0	300	0	4	0	67	0.56
	19	32	2.4	0.07	140	140	7.8	7.4	7.2	208	204	0.25	1.10	4.0	4.0	4100	0	3	0	66	0,54
	20	33	2.3	0.06	160	160	7.8	7.4	7.2	204	212	0.24	1.10	4.0	3.9	2500	0	3	0	65	0.56
	21	28	2.3	0.06	156	148	7.8	7.4	7.3	208	200	0.21	1.11	4.0	4.0	2500	0	3	0	65	0.47
	22	26	2.3	0.06	160	168	7.8	7.4	7.3	216	216	0.24	1.10	3.9	3,9	3300	0	3	0	64	0.54
	23	25	2.2	0.06	172	156	7.7	7,4	7.2	260	220	0.28	1.14	3.8	3.9					64	0.58
	24	25	1.9	0.06	172	152	7.8	7.4	7.3	212	200	0.28	1.13	3.9	3.9		ļ	ļi.		64	0.55
	25	22	2.0	0.05	172	164	7.8	7.5	7.3	216	216	0.25	1.12	3.8	3.7	3600	0	4	0	64	0.55
	26	21	2.1	0.06	168	160	7.7	7,5	7.3	204	204	0.25	1.08	3.8	3.9	500	00	3	0	64	0.58
	27	31	2,6	0,06	164	160	7.7	7.5	7.3	212	208	0.27	1.11	3.8	3.9	2300	0	3	0	64	0.56
	28	32	2.3	0.06	180	172	7.8	7.5	7.3	220	220	0.27	1.07	3.5	3.9	2800	0	3	00	64	0.58
	29	33	2.3	0.06	184	176	7.7	7.5	7.4	216	216	0.27	1.13	3.6	3.4	2400	0	3	0	65	0.59
	30	34	2.5	0.06	188	184	7.8	7.5	7.3	208	208	0.24	1.17	3.5	3.6					64	0.59
	31	35	2.2	0.06	184	188	7,5	7.4	7.3	208	208	0.22	1.15	3.7	3.7		L	<u> </u>		64	0.55
TOTAL																	_	64	_		
AVE	AVE	43	2.2	0.07	164	157	7.8	7.4	7.3	206	203	0.24	1.08	3.9	3.9	1400	0	3	0	67	0.55
MAX	MIN	21	1.6	0.05	140	140	7.5	7.1	7.0	188	184	0.21	0.90	3.5	3.4	100	0	0	Ō	64	0.47
MIN	MAX	162	2.6	0.09	188	188	8.0	7.6	7.5	260	220	0.28	1.20	4.2	4.1	4100	0	4	0	73	0.59

GRANITE CITY, ILLINOIS

NOVEMBER.ZUU4

		T	URBIDIT NTU	Υ		M		РН		HARDI Pf	NESS PM		ORIDE PM		PM		PLANT	DIST. SY		WATER	
	D.4.7.	D 4142	0.55		МО	MO	<b>5</b>							TL-CL2			il Col/100ml		NO.		PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW		SAMPLES	>1	F	
	1 1	36	2.0	0.06	156	144	7.8	7.5	7.4	180	180	0.28	1.10	3.6	3.7	6600	1 0	4	Ō	65	0.53
	12	75	2.3	0,06	156	144	7.8	7.5	7.3	196	196	0.28	1.13	3.1	3.4	3200	0	4	0	65	0.54
	3	112	3,5	0.06	168	144	7.8	7.5	7.3	200	200	0.24	1.10	3.5	3.3	3600	0	9	<u> </u>	65	0.54
	5	102 76	5.0 3.5	0.06	148 152	132 132	7.7	7,4 7.2	7.3	192 192	192	0.22	1.03	2.2	3.3 3.5	8400 5500	0	3	0	64 64	0.52
<del>,</del>	6	69	3.3	0.05	148	140	7.6	7.3			184	0,23			3.5	1 2200	1 0	3 +	0	63	0.53
	7	66	3.3	0.05	160	124	7.7	7.3	7.4 7.3	216 216	204 212	0.27	1.15	3.3	3,6		1			62	0.52
	8	59	3.7	0.06	172	148	7.7	7.3	7.3	224	220	0.25	1.07	3.2	3.7	1800	0	4	0	63	0.52
	9	52	4.8	0.06	176	148	7.8	7.3	7.3	236	224	0.27	1.04	3.4	3.8	900		4	0	64	0.56
	10	47	5.1	0.06	172	152	7.5	7.3	7.3	240	236	0.28	0.98	2.6	3.5	300	1 0			63	0.53
	111	43	3,8	0.06	160	168	7.7	7.4	7.3	240	240	0.24	0.88	3.3	4.1	<del> </del>	- <del> </del>			62	0.53
	12	46	4.9	0.06	184	176	7.8	7.6	7.5	268	260	0.28	1.01	3.4	3.8	2400	0	3	0	61	0.53
	13	37	3.8	0.05	184	172	7.9	7.6	7.5	252	260	0.29	1,13	3.5	4.0	2700	- <del></del>	-		61	0.53
	14	31	3,4	0.05	176	172	7.8	7.6	7.4	260	252	0.24	1.11	3.6	3.8	<del> </del>				60	0.55
-	15	26	3.9	0.05	184	172	7.9	7.6	7,4	256	264	0.25	0.91	3.6	4.0	1400	0	4	0	60	0.54
	16	23	3.3	0.05	180	180	7.9	7.7	7.5	260	256	0.25	1,18	3.7	4.0	1800	0	4	0	60	0.56
	17	22	3,1	0.05	192	196	7,9	7.6	7.5	252	252	0.24	1.10	3.7	3.9	600				58	0.55
	18	20	3.0	0.06	188	188	8.0	8.2	7.8	244	244	0.23	1.16	3.7	3.7	200	0	4	0	59	0.54
	19	17	3.0	0.06	196	192	8,0	8.1	7.8	240	240	0.23	1.05	3.7	4.0	3300	0	3	0	58	0.52
	20	17	3.2	0.07	192	192	8.0	7.6	7.5	248	248	0.23	1,11	3.8	4.0					58	0.56
	21	16	2.7	0.07	196	192	8.0	7.6	7.5	252	252	0.24	1.04	3.8	3.9					57	0.53
	22	15	3.2	0.07	196	188	7.8	7.6	7.5	236	232	0.22	1.11	3.8	3.8	500	0	4	0	58	0.50
	23	14	3.3	0.08	188	172	8.0	7,6	7.5	224	216	0.32	1.01	3.8	3.7	400	0	4	0	58	0.50
	24	39	3.4	0.07	180	172	7.9	7.6	7.5	224	224	0.20	1.06	3,7	3.8					57	0.50
	25	82	3.8	0.07	168	156	8.0	7.5	7.4	212	212	0.19	1.04	3.6	3,7					56	0.47
	26	41	3.6	0.07	172	152	8.0	7.5	7.4	208	208	0.19	1.07	3.7	3.8					56	0.46
***************************************	27	40	3.8	80.0	160	148	8.0	7.5	7.4	208	212	0.22	1.03	3,7	3.8					56	0,48
Total Comment	28	48	4.4	0.07	172	156	8.0	7,5	7.4	208	208	0.19	1.03	3.6	3.9			<u> </u>	and the second	55	0.46
	29	48	3.3	0.05	180	160	7.9	7.5	7.4	212	232	0.23	1,13	3.7	3,8	6000	0	4	0	55	0.48
	30	46	4.0	0.05	180	180	7.9	7.5	7.4	240	240	0.22	1.09	3.8	3.9	4100	0	4	0	55	0.46
	31_				1					<u> </u>			]	j	l <u> </u>	<u> </u>		]			<u> </u>
TOTAL																		57			
AVE	AVE	46	3.6	0,06	175	163	7.9	7.5	7.4	228	227	0.24	1.07	3.5	3.8	2982	0	4	0	60	0.52
MAX	MIN	14	2.0	0.05	148	124	7.5	7.2	7.2	180	180	0.19	0.88	2.2	3.3	200	0	0	0	55	0.46
MIN	MAX	112	5.1	0.08	196	196	8.0	8.2	7.8	268	264	0.32	1.18	3.8	4.1	8400	О	4	0	65	0.56

PURIFICATION PLA ILLINOIS-AMERICAN WATER COMP. / III FRURBAN DISTRICT

GRANITE CITY PLANT

**FACILITY NO. 163-5040** 

### GRANITE CITY, ILLINOIS

DECEMBER,2004

		Т	URBIDIT NTU	Υ		PM		PΗ		HARD!	NESS PM		ORIDE PM	-	PM		PLANT	DIST. SY		WATER	
	DATE	DAM	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100ml RAW		NO. SAMPLES	NO. >1	TEMP.	PHOS.
ſ <del></del>	1 1	63	5.2	0.06	176	164	7.7	7.5	7.4	236	224	0.23	1.05	3.7	3.7	4700	<u>Err</u>	SAMPLES	- 1	55	0.47
1	2	62	5.0	0.06	164	160	7.7	7.5	7.4	228	220	0.21	1.01	3.8	3.7	3100	0	4	0	54	0.46
	3	56	4.6	0.06	172	156	7.7	7.5	7.3	232	228	0.25	1.11	3.7	3.7	7900	0	3	0	53	0.46
	4	48	4.0	0.05	180	164	7.7	7.4	7.3	240	236	0.30	1.12	3.8	3.7	1.000		<del></del>		52	0.46
	5	42	4.0	0.05	180	176	7.7	7.6	7.4	256	248	0.21	1.05	3.7	3.7			1	-	52	0.47
	6	39	4.8	0.05	184	180	8.0	7.6	7.5	236	240	0.29	1.09	3.6	3.8	7200	0	4	0	53	0.48
	7	144	3.7	0.05	188	196	7.8	7.5	7.4	240	232	0.32	1.03	3.5	3.7	2600	0	4	0	52	0.45
	8	117	4.0	0.05	164	156	7.6	7.4	7.3	196	200	0.26	1.04	3.5	3.8	2900				52	0.44
	9	114	4.4	0.07	156	160	7.9	7,4	7.3	212	208	0.36	1.06	3.4	3.6	6800	0	4	0	52	0.45
	10	113	5.4	0.08	196	188	7.8	7.4	7.3	200	200	0.25	1.09	3.3	3.6	4500	0	3	0	52	0.46
	11	96	5.9	0.08	180	164	7.7	7.5	7.3	236	232	0.23	1.14	3.4	3.7			;		51	0.44
	12	79	5.8	0.08	184	168	7.7	7.4	7.3	236	236	0.23	1.08	3.4	3.7			T I		51	0.43
	13	71	6.5	0.08	176	168	7.8	7.5	7.3	236	232	0.23	1.09	3.1	3.9	2600	0	4	0	51	0.42
	14	60	5.6	0.06	184	172	7.8	7.5	7.4	244	244	0.23	1.04	2.5	3.6	3100	0	4	0	50	0.46
	15	48	5.5	0.07	192	180	7.7	7.4	7.4	260	252	0.25	1.13	3.2	3.9	1900				50	0.44
	16	44	5.5	0.07	188	180	7.9	7.5	7.4	256	256	0.24	1.06	3.4	3.9	1700	0	4	0	49	0.53
	17	43	6,5	0.07	184	172	7.9	7.5	7.4	240	236	0.23	1.12	3.4	4.0	1400	0	3	0	49	0.49
ļ	18	39	6.5	0.07	192	180	7.9	7.5	7.4	256	244	0.29	1.08	3.7	4.0					49	0.52
	19	40	7.3	0.07	180	168	8.0	7.6	7,5	256	244	0.22	1.05	3.8	4.1					48	0.48
	20	43	5.4	0.04	184	176	8.0	7.5	7.4	252	244	0.25	1.09	3.8	4.1	1800	0	4	0	48	0.49
	21	37	5.5	0.05	180	172	8.0	7.5	7.4	260	256	0.21	1.04	3.7	4.1	1000	0	4	00	47	0.50
· · · · · · · · · · · · · · · · · · ·	22	35	5,7	0.05	180	180	8.0	7.6	7.4	264	264	0.29	1.03	3.7	4.1	1100		1		47	0.48
\ <del> </del>	23	28	5.7	0.05	188	188	7.8	7.6	7.5	280	276	0.21	1.09	3.6	3.8			<del> </del>	·	46	0.51
	24	21	5,3	0.05	220	200	7.9	7.6	7.5	292	284	0.24	1.09	3.7	3.8	ļ <u>.</u>				46	0.51
	25	19	5.8	0.05	200	184	7.9	7.6	7.6	292	276	0.28	1,09	3.7	3.8				*******	46	0.49
	26	21	6.0	0.05	208	196	8.0	7.8	7,7	300	280	0.27	1.08	3.4	3.7	<u> </u>				45	0.52
	27	19	5.7	0.05	204	200	8.0	7.7	7.6	292	280	0,23	1.10	3,7	3.9	300	0	4	0	46	0.52
	28_	17	4.7	0.05	208	200	8.2	7.8	7.7	292	300	0.27	1.12	3.8	4.0	600	0	4	00	45	0.52
	29	23	4.9	0.05	202	200	8.3	7.8	7.7	304	296	0.24	1.10	3.8	4.0	1400		ļ.,		44	0.56
	30	26	4.6	0.05	204	200	8.3	7.8	7.7	312	300	0.23	1.08	3.7	3.8	1400				44	0.53
	31	18	3.8	0.04	220	212	8.3	7.9	7.8	292	280	0.23	1,15	3.7	3.8		<u></u>	1		45	0.55
TOTAL																	_		_		
AVE	AVE	52	5.3	0.06	188	179	7.9	7.6	7.5	256	250	0.25	1.08	3.6	3.8	2900	0	53	0	49	0.48
MAX	MIN	17	3.7	0.04	156	156	7.6	7.4	7.3	196	200	0.21	1.01	2.5	3.6	300	0	3	0	44	0.42
MIN	MAX	144	7.3	0.08	220	212	8.3	7.9	7.8	312	300	0.36	1.15	3.8	4.1	7900	0	4	0	55	0.56

WATER COMPANY RURBAN DISTRICT
GRANITE CITY PL

**FACILITY NO. 163-5040** 

GRANITE CITY, ILLINOIS

JANUARY, 2003

		Ŧ	URBIDI NTU	TY	ALKAI Pi	PM		PH			NESS PM		ORIDE PPM	RESIDU	JAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	
					MO	MO								TL-CL2			i Col/100m		NO.		PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	>1	<u> </u>	T
	1 1	11	3.7	0.04	188	184	8.7	7.7	7.6	224	224	0.22	1.13	4.0	3.6	0	<del> </del>			42	0.71
	2	11	4,4	0.04	188	172	8.8	7.8	7.6	220	220	0.20	1.13	3.9	3.7	500	0	3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	41	0.73
	3	11	4.5	0.06	188	172	8.8	7.7	7.6	240	236	0.24	1.18	4.1	3.9	1000	0	3	0	42	0.75
	4	10	4.1	0.04	196	168	8.8	7.9	7.6	240	248	0.26	1.11	4.1	4.0	0	1	<del> </del>		41	0.70
	5	11	2.5	0.04	184	164	8.8	7.9	7.6	244	232	0.24	1.19	3.7	3.7	0	ļ <u>.</u>	<u> </u>		42	0.72
	6	10	4.4	0.04	188	168	8.8	7,9	7.6	232	228	0.24	1.10	3.5	<u> </u>	1600	0	4	0	40	0.73
11 T 1915 I CONSUM COMM	7	10	2.5	0.04	188	172	8.7	7.7	7.6	230	212	0,26	1.10	3.8	3.7	400	0	3	0	42	0.65
	8	10	2.5	0.03	180	172	8.7	7.7	7.6	232	224	0.22	1.09	3.5	3.6	700	0	3	0	42	0.69
	9	10	3.0	0.04	200	184	8.7	7.8	7.6	240	236	0,20	1.09	3,0	3,4	1000	0	. 3	<u> </u>	44	0.70
	10	7	3.5	0.05	188	164	8.7	7.8	7.6	220	212	0.22	1.09	3.3	3.6	400	0	3	0	43	0.70
	11	7	3.5	0.05	180	164	8.6	7.8	7.6	220	220	0.20	1,09	3.0	3.7	0		<u> </u>		42	0.74
/	12	7	4.0	0.04	180	168	8.6	7.8	7.5	232	224	0.21	1.09	3.8	3.6	0	<del></del>	<u> </u>		42	0.74
	13	7	4.3	0.03	180	164	8.6	7.7	7.5	232	220	0.24	1.09	3.8	3.8	300	<u> </u>	4	<u> </u>	42	0.73
	14	7	43.0	0.04	180	168	8.5	7.7	7.5	240	220	0.22	1.09	3.5	3,7	300	<u>  0</u>	1 3	0	42	0.71
	15	6	4.3	0.04	192	176	8.6	7.7	7.5	240	236	0.22	1.09	4.2	3.8	600	0	3	0	40	0.70
	16	7	4.3	0,04	188	176	8.5	7.7	7.5	240	240	0.20	1.07	4.0	4,1	600	0	3 :	0	40	0.80
· Laure order Laure	17	7	5.1	0.04	196	184	8.5	7.7	7.5	244	244	0.26	1,00	4.0	3.8	500	0	3	0	40	0.78
	18	7	5.4	0.04	192	184	8.5	7.7	7.6	240	240	0.22	1,12	4.1	3.9	0	<u> </u>	<b>.</b>		40	0.79
	19	7	5.4	0.06	196	184	8.5	7.8	7.5	244	240	0.20	1.09	3.7	3.8	. 0		ļ		: 39	0.76
	20	7	4,7	0.04	196	184	8.6	7.8	7.6	240	240	0.25	1,15	3.9	4.0	700	0	0	0	38	0.76
	21	_7	5.3	0.04	184	176	8.3	7.8	7.5	224	224	0.28	1.09	3.6	3.9	2900	0	<u> 3</u>	<u> </u>	40	0.79
	22	7	5.1	0.04	192	176	8.5	7.8	7.6	232	232	0.22	1.09	3.5	4.0	8100	0	3	<u>o</u>	39	0.66
	23	7	5.1	0,04	180	188	8.4	7.6	7.5	240	240	0.29	1.09	3.5	<u>  3.9</u>	2000	0	3	0	38	0.69
	24	7	5.8	0.04	196	176	8.5	7.8	7,5	236	236	0.26	1.09	3.9	3.7	100	0	3	0	38	0.71
	25	7	5.9	0.04	192	176	8,5	7.9	7.6	240	240	0.22	1.10	3.5	3.6	. 0		<u> </u>		38	0.78
	26	7	4.9	0.04	196	180	8.5	7.9	7.6	240	240	0.23	1.10	3.4	3.9	0				38	0.75
	27	7	5.0	0.04	196	180	8.6	7.9	7.6	248	248	0.21	1.09	4.2	3.7	2600	0	4	00	38	0.75
	28	7	5,3	0.04	192	184	8.6	7.8	7.6	240	240	0.20	1.09	3.8	3.9	1800	0	3	0	38	0.74
	29	7	5.7	0,06	200	180	8.5	7.9	7.6	240	240	0.21	1.09	4.2	4.0	2700	0	3	0	38	0.71
	30	8	5.6	0.04	192	176	8.6	7.9	7.6	244	252	0.23	1.09	4.2	3.5	3100	0	3	0	38	0.69
	31	9	4.7	0,04	192	176	8,6	7.7	7,6	244	252	0.23	1.13	4.0	3.7	1700	0	3	00	38	0.77
TOTAL																		66			
AVE	AVE	8	5.7	0.04	190	175	8.6	7.8	8	236	233.55	0.23	1.1	3.8	4	1084	0	3	0	40	1
MAX	MIN	6	2.5	0.03	180	164	8.3	7.6	8	220	212.00	0.20	1.0	3.0	3	0	0	0	0	38	1
MIN	MAX	11	43.0	0.06	200	188	8.8	7.9	8	248	252.00	0.29	1.2	4.2	4	8100	0	4	0	44	1

GRANITE CITY, ILLINOIS

FEB., 2003

		Т	URBIDIT NTU	Y	ALKAL Pr	.INITY PM		PН		HARD Pl	NESS PM		PM		IAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
					MO	MO								TL-CL2			Col/100ml		NO.	TEMP.	PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	<u>EFF</u>	SAMPLES	>1	F	·
	11	8 [	4.1	0.06	196	180	8.5	7.9	7.6	240	240	0.20	1.11	3.8	3.6			ļ		33	0,74
	2	8	4.5	0.04	216	180	8.7	8.0	7,6	244	240	0.19	1,09	3.8	3.6	<u> </u>				33	0.73
	3	10	4.8	0.04	156	160	8.7	8,0	7.6	240	240	0.24	1,09	3.8	3,5	2800	0	4	0	<u>  39</u>	0.70
	4	11	5.6	0.04	160	164	8.7	8.0	7.7	240	240	0.20	1.09	3.6	3.3	2300	0	3	<u> </u>	37	0.74
	5	88	4.8	0.04	176	176	8.8	8.0	7.7	244	240	0.20	1.09	3.7	3.3	700	0	3	0	38	0.74
	6	7	4.3	0.04	172	172	8.8	8.0	7.7	252	244	0.25	1.09	4.2	3.2	300	0	3	<u> </u>	33	0.70
	7	8	5.0	0.04	180	180	8.9	8.2	7.7	240	240	0.35	1.09	3,5	3,5	700	0	3	0	33	0.71
	8	7	5.0	0.04	208	196	8.9	8.2	7,7	256	256	0.23	1.09	3.6	3,6					33	0.71
	9	7	5.1	0.04	200	180	8,9	8.1	7.8	264	260	0.18	1,09	3.6	3.5		ļ	ļ		33	0,65
	10	8	6.1	0.05	240	240	8.9	8.2	7.8	240	240	0.21	1.10	3.8	3.2	400	0	4	0	36	0.69
	11	8	5.6	0.04	204	192	8,9	8.1	7.8	252	252	0.22	1.10	3.8	3.8	400	0	3	0	33	0.67
	12	9	3.2	0.04	200	192	8.9	8.0	7,8	240	240	0.20	1.09	3.8	3,8	1200	0	3	0	33	0.68
	13	8	3.7	0.04	190	186	8.9	8.0	7.7	240	240	0.21	1.09	3.7	3.8	600	<u> </u>	3	0	33	0.72
	14	8	2.9	0.04	188	168	8.9	8.0	7.7	240	232	0.27	1.10	3.8	3.5	100	0	3	0	34	0.66
	15	12	2.6	0.04	188	180	8.8	8.0	7.7	220	216	0,27	1.09	3.5	3.4			ļ	namen of the Base of the State	33	0.66
	16	25	4.0	0.04	188	172	8.8	7.9	7.7	224	224	0.24	1.10	3.4	3.4		ļ			33	0.68
- <del> </del>	17	16	5.7	0.04	188	160	8.7	7.9	7,7	224	224	0.27	1.10	3,8	3.9	1200	0	4	0	34	0.62
	18	13	4.8	0.04	192	172	8.8	7.9	7.7	240	240	0.32	1.09	3.9	3.7	700	0	3	0	34	0.70
	19	27	5,1	0.04	192	132	8.7	7.9	7.7	228	228	0.32	1.09	3.5	3.7	1800	0	3	0	34	0.70
	20	34	5,0	0.05	180	160	8,7	7.8	7.6	224	248	0.26	1,09	3.5	3.8	900	0	3	0	34	0.67
	21	25	4.3	0.04	180	160	8.8	7.8	7.6	236	236	0.20	1.09	3.6	3,8	1900	0	2	0	34	0.74
	22	22	4.8	0.04	180	160	8.8	7.8	7.6	236	236	0.20	1.09	3.5	3,7		<del></del>			34	0.70
	23	19	4.8	0.04	192	172	8.8	7.8	7.6	248	244	0.20	1.09	3.7	3.9		<u> </u>			35	0.68
	24	19	6,6	0.04	200	168	8.8	7.8	7.6	252	240	0.22	1.09	3.7	3.8	900	00	4	00	34	0.67
	25	19	5.7	0.04	196	168	8.7	7,7	7.6	240	240	0.25	0.10	3.6	3,7	1000	0	3	0	33	0.65
	26	18	5.6	0.04	190	164	8.8	7.6	7.6	240	240	0.29	1.09	3.6	3,6	1200	0	3	0	33	0.67
	27	17	5.6	0.04	196	160	8.9	7.8	7.7	240	240	0.26	1.09	3.6	3,7	1000	0	3	0	34	0,65
	28	16	5.1	0.04	192	164	8.9	7.8	7.7	240	240	0.23	1.09	3.8	3,7	300	0	3	00	34	0.70
	29									<u> </u>	)										
	30			<u> </u>			<u></u>			j					1						
	31			<u> </u>			<u> </u>		<u> </u>	1	4				1						
TOTAL																		63			
AVE	AVE	14	4.8	0.04	191	174	8.8	7.9	7.7	240	239	0.24	1.06	3.7	3.6	1020	0	3	0	34	0.69
MAX	MIN	7	2.6	0.04	156	132	8.5	7.6	7.6	220	216	0.18	0.10	3.4	3.2	100	0	2	0	33	0.62
MIN	MAX	34	6.6	0.06	240	240	8.9	8.2	7.8	264	260	0.35	1.11	4.2	3.9	2800	0	4	0	39	0.74

GRANITE CITY PLANT GRANITE CITY, ILLINOIS

MARCH , 2003

		T	URBIDIT NTU	Y	ALKAL Pi	LINITY PM		PН		HARDI PE			ORIDE PM		JAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
		<b></b>			MO	MO								TL-CL2			ni Col/100mi		NO.		PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	<u>EFF</u>	SAMPLES	>1	F	0.00
	1 1	14	4.9	0.04	188	168 172	8.9	7.8	7.7	242	238	0.26	1.09	4.1	3.7			<del> </del>		40	0.69
	3	13 12	4.0 3.9	0.04	192 212	176	8.9 8.7	7.8	7.7	228 236	236	0.29	1.09	4.1 3.9	3.4	2500		4	0	: 40	0.66
,	4	11	3.6	0.04	188	176	8.7	7.8	7.7	240	232 240	0.24	1.09	3.8	3.4	1200	0	3	0	34	0.67
	5	10	4.4	0.04	188	176	8.9	7.8	7.7	240	240	0.19	1.09	3.8	3.7	1000	<u> </u>	3	0	34	0.63
	6	11	3.6	0.04	192	176	8.9	7.8	7.8	240	240	0.13	1.09	3.8	3.8	1000	<del></del>	3	0	34	0.70
	7	11	3.2	0.04	192	176	8.8	7.9	7.8	240	240	0.21	1.09	3.4	3.5	500	0	3	0	35	0.71
	8	12	3.7	0.04	192	180	8.9	7.9	7.7	240	240	0.20	1.09	3.3	3.5		· · · · · · · · · · · · · · · · · · ·			35	0.72
	9	12	3.5	0.04	192	184	8.9	7.9	7.7	240	240	0.21	1.09	3.8	3.6	†		:		35	0.75
and contribution of	10	12	3.4	0.04	188	188	8.6	7.8	7.7	220	220	0.30	1.09	3.8	3.7	600	0	. 4	0	→ 36	0.65
100000000000000000000000000000000000000	11	11	3.3	0.04	176	164	8.7	7.8	7.7	220	216	0.24	1.09	3.7	3.9	1400	0	3	0	36	0.67
	12	13	3.4	0.05	188	180	8.7	7.8	7.7	208	208	0.24	1.10	3.5	3.8	700	0	3	0	36	0,66
	13	23	2.8	0.05	192	188	8.6	7.9	7.8	208	208	0.28	1.09	3.7	3.7	600	0	3	0	37	0.70
	14	39	3.2	0.07	172	156	8.7	7.8	7.7	208	208	0.24	1.10	3.6	3.5	3200	0	3	0	37	0.71
	15	22	3.3	0.05	160	160	8.8	7.7	7.6	224	224	0.24	1.09	3.7	3.4		T			45	0.73
	16	24	3.7	0.04	164	164	8.8	7.8	7.6	220	220	0,20	1.09	3.6	3.5					45	0.67
	17	19	4.1	0.05	160	152	8.8	7.7	7.6	220	220	0,24	1.09	3.7	3.6	1200	0	4	0	43	0.69
	18	26	4,6	0.05	160	144	8.8	7.7	7.6	220	220	0.23	1.09	3.6	3.6	2000	<u> </u> . <u>0</u>	3	0	44	0.65
alanina alimpopopo	19	25	4.5	0.04	168	144	8.3	7.6	7.5	216	212	0.22	1.09	3,4	3.6	1000	0	3	0	46	0.62
	20	30	3.1	0.05	140	144	8.7	7.6	7.5	220	220	0.22	1.09	2.9	3.2	2500	0	3	0	46	0.57
	21	54	3.2	0.09	160	144	8.7	7.6	7.5	216	220	0.23	1.09	3.2	3.5	6000	0	3	0	47	0.70
***************************************	22	48	3.4	0.05	160	152	8,6	7.7	7.6	220	216	0.25	1.09	3.3	3.2					51	0.65
	23	51	3.5	0.05	164	160	8.6	7.6	7.6	220	220	0.21	1.09	3.7	3.5		<u> </u>	ļ		51	0,66
	24	41	3.3	0.05	168	160	8.5	7.6	7.6	224	224	0.27	1.09	3.8	3.9	1300	0	4	0	51	0.70
	25	35	3.4	0.05	140	136	8.5	7.6	7.6	220	212	0.19	1.09	3.0	3.2	1500	0	3	0	51	0.69
	26	31	3.3	0.05	140	140	8.5	7.5	7.5	224	216	0.27	1.09	3.5	3,8	1300	0	3	<u> </u>	51	0.65
	27	26	2.1	0.04	148	144	8.6	7.5	7.6	220	220	0.28	1.09	3.5	3.7	1600	0	3 3	0	51 51	0.64
	28	25	2.5	0.05	164	172	8.5	7.5	7.6	236	232	0.23	1.09	3.6	3.6	4100	1 0	3		51	0.59
	29	25	3.3	0.05	168	172	8.5	7.6	7.6	240	240	0.26	1.10	3.3	3.4	ļ	1		en eternolokus – etter – e	50	0.66
	30	24	3.5	0.04	164	172	8.7	7.5	7.5	236	236	0.27	1,10	3,4	3.5 3.7	1900	0	4	0	49	0.65
<b>FOTAL</b>	31	22	3.7	0.04	180	168	8.7	7.7	7.6	228	228	0.20	1,10	3.9	3.1	1900	1	68		1 45	0.00
AVE	AVE	24	3.5	0.05	173	164	8.7	7.7	7.6	226	225	0.24	1.09	3.6	3.6	1767	0	3	0	43	0.67
VIAX	MIN	10	2.1	0.03	140	136	8.3	7.7 7.5	7.5	208	208	0.24	1.09	2.9	3.2	500	0	3	0	34	0.57
VIIN	MAX	54	4.9	0.09	212	188	8.9	7.9	7.8 7.8	242	240	0.19	1.10	4.1	3.9	6000	Ö	4	û	5 <del>1</del>	0.75
1 ) [1 4	1411-01	0-7	4.0	Ų.00	<b>4</b> 1 <b>5</b> 1	100	0.0	7.0	, .0	<u> </u>	270	0.00	1710	711	0.0	0005	·	,	•	•,	, <del>-</del>

GRANITE CITY, ILLINOIS

APRIL, 2003

		T	URBIDIT NTU	Υ	ALKAL Pi	<b>PM</b>		PН		HARDI Pf	NESS PM	-	ORIDE PM	RESIDU	IAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
					MO	MO								TL-CL2	TL-CL2	Col/100ml	Col/100ml	NO.	NO.	TEMP.	PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW_	EFF	SAMPLES	>1	<u> </u>	
	11	21	3.7	0.06	188	168	8.7	7.8	7,7	224	220	0.23	1,09	3.5	3,6	1900	0	3	0	50	0.66
and the control of th	2	19	2.9	0.06	184	172	8.8	7.9	7,7	224	224	0.27	1.07	3.5	3,6	600	0	3	0	51	0.67
	3	19	2.9	0.06	168	156	8.8	7.8	7.8	208	208	0.30	1.10	4.1	3.8	4700	0	3	0	52	0.59
	4	18	3.0	0.04	196	188	8.8	7.7	7.7	208	208	0.18	1.09	3.7	3.9	1200	0	3	0	53	0.63
and the second of the second of the second	5	19	2.6	0.04	176	168	8.7	7.6	7.6	200	200	0.20	1.10	3.7	3,7	I				53	0.60
	6	19	2.7	0.04	180	172	8.7	7.6	7.6	196	196	0.20	1.09	3.5	3.6					53	0.61
	7	23	3.3	0.04	168	164	8.7	7.7	7.5	212	208	0.21	1.09	3.4	3.6	10800	0	4	0	53	0.69
p	8	23	3.4	0.04	180	164	8.6	7.6	7.6	232	216	0.28	1.09	3.8	3.9	700	0	3 (	0	53	0,66
	9	26	3.0	0.04	200	164	8.4	7.6	7.4	208	_216	0.18	1.09	3.8	3.8	1100	0	3	0	54	0.68
man commencer and	10	30	3.2	0.05	176	152	8.3	7.4	7,4	200	204	0.20	1.09	3.8	3.7	1200	<u> </u>	3	0	54	0.67
	11	27	2,4	0.04	184	148	8.2	7,4	7.4	: 196	200	0.21	1,09	3.5	3.7	700	0	3	_0	55	0.64
	12	23	2.4	0.04	188	152	8.1	7.4	7.4	200	204	0.25	1.09	3.5	3.8		L			55	0.58
	13	25	2.6	0.05	156	148	8.2	7.6	7.5	216	216	0.22	1.09	3,3	3.6	!	:			<u>56</u>	0.60
	14	25	2.4	0.05	168	152	8.2	7,4	7.5	212	204	0.25	1.09	3.5	3.6	400	Ō	4	0	56	0.56
	15	28	2.1	0.04	160	132	8.3	7.4	7.5	220	212	0.23	1.09	3.2	3.8	1000	0	3	00	56	0.61
	16	19	2.0	0.04	160	144	8.4	7,4	7.5	228	220	0.23	1.09	3.4	3.7	2700	0	3	0	57	0.58
	17	20	2.1	0.04	148	152	8.6	7.4	7.5	224	228	0.22	1.09	3.7	3.7_		}			57	0.61
.,	18	21	2.0	0.05	148	156	8.3	7.4	7.5	224	224	0.24	1.09	4.0	3,7					57	0,66
	19	18	1.7	0.04	144	148	8.4	7.5	7.5	232	228	0.24	1.09	4.3	3.8	7				57	0.58
	20	18	1.9	0.04	140	144	8.2	7.6	7.4	228	224	0.25	1.09	3.8	3.6					57	0.58
	21	17	2.1	0.04	172	156	8.0	7.6	7.4	220	224	0.25	1.09	4.0	3.6	2600	0 .	4	0	57	0.55
	22	17	2.2	0.04	164	164	7.9	7.5	7.3	220	220	0.23	1,09	4.0	3,6	2900	0	3	0	57	0.57
	23	17	2,9	0.03	168	152	8.0	7.5	7.3	204	208	0.18	1.09	2.3	3.6	1300	0	3	0	57	0.61
	24	20	4.0	0.03	168	156	8.2	7.5	7.4	200	204	0.20	1.09	1,9	3,6	600	0	3	0	57	0.57
	25	25	2.8	0.03	164	148	8.0	7.5	7.4	204	204	0.18	1.09	2.1	3.7	6100	0	3	0	57	0.59
	26	31	2.4	0,04	156	148	8.0	7.5	7.4	220	220	0.20	1.09	2.1	3,7				er commente version and a for	58	0.63
. accessor a malaceman	27	35	2.5	0.04	160	152	8.0	7.4	7.4	216	216	0.22	1.09	3.1	3,8					58	0.63
	28	33	3.3	0.04	152	152	8.1	7.4	7.3	200	200	0.35	1.09	3.1	3.8	700	0	4	0	56	0.56
	29	44	4.3	0.04	144	152	8.0	7.4	7.3	200	204	0.17	1.09	2,6	3.5	2200	0	3	0	57	0.63
	30	53	3.3	0.04	144	136	8.0	7,3	7.3	176	172	0.19	1.09	3.4	3.5	008	0	3	0	58	0.59
	31	-												}	1						
TOTAL										,								64			
AVE	AVE	24	2.7	0.04	167	155	8.3	7.5	7.5	212	211	0.23	1.09	3.4	3.7	2210	0	3	0	55	0.61
MAX	MIN	17	1.7	0.03	140	132	7.9	7.3	7.3	176	172	0.17	1.07	1.9	3.5	400	0	3	0	50	0.55
MIN	MAX	53	4.3	0.06	200	188	8.8	7.9	7.8	232	228	0.35	1.10	4.3	3.9	10800	Ō	4	0	58	0.69

RURBAN DISTRICT

GRANITE CITY

FACILITY NO. 163-5040

GRANITE CITY, ILLINOIS

MAY, 2003

		T	URBIDIT NTU	Υ		PM		PН		HARD Pi	NESS PM		ORIDE PM	RESIDU	PM		PLANT	DIST. SY	STEM	WATER	
				~~~	МО	MO	<b></b>	057		5.4141	F. 0.15			TL-CL2			Col/100m		NO.	_	PHOS.
	DATE		SET	EFF 0.04	RAW 144	EFF 140	RAW 8.3	SET 7.4	EFF 7.3	RAW 180	EFF	RAW	EFF	SET 3.8	EFF	RAW	EFF	SAMPLES 3	<u>&gt;1</u>	F	0.60
	2	45 35	2.1	0.04	184	180	8.1	7.4	7.4	196	180 196	0.27	1.09	4.6	3.8	1400 900	0	3	0	58 58	0.60
	3	51	2.1	0.05	132	132	7.8	7.5	7.4	188	184	0.20	1.09	4.5	3.9	800	<u> </u>	- 3		62	0.62
	4	72	1.3	0.06	124	120	7.8	7.4	7.4	180	176	0.19	1.09	4.4	3.8	<u> </u>	-			63	0.54
	5	105	1.8	0.09	124	124	7.8	7.3	7.4	176	180	0.21	1.09	4.2	3.3	3300	0	4	0	63	0.71
	6	108	2.1	0.06	136	124	7.7	7.4	7.4	184	176	0.22	1.10	3.9	3.7	2200	<del></del>	3	0	63	0.54
	7	106	2.7	0.06	136	120	7.7	7.1	7.4	196	196	0.30	1.09	4.4	3.6	9400	0	3	0	64	0.53
	8	115	5.2	0.08	140	132	7.7	7.1	7.5	192	188	0.24	1.10	3.5	3.5	2200	0	3	0	64	0.55
	9	157	6.0	0.07	120	116	7.5	7.2	7.1	192	188	0.34	1.09	3.8	3.3	2900	0	3	0	62	0.50
	10	193	5.1	0.08	120	120	7.6	6.8	7.4	188	184	0.31	1.09	4.0	3.5	1				62	0.52
<u></u>	11	194	1.9	0.05	112	112	7.7	7.2	7.4	192	188	0.31	1.09	3.1	3.2					62	0.65
	12	187	2.3	0.06	112	112	7.7	6.9	7.7	180	160	0.28	1.09	3.9	3.1	7200	O	4	0	63	0.56
	13	151	3.8	0.05	120	116	7.7	6.9	7.6	180	164	0.30	1.09	3.7	3.5	2800	0	3	0	63	0.58
	14	184	4.2	0.05	120	120	7.7	7.0	7.5	180	168	0.28	1.09	3.6	3.6	4100	0	3	0	63	0.58
	15	172	4.9	0.05	120	144	7.6	7.3	7.6	204	204	0.23	1.09	3.6	3.6	1000	0	3	0	65	0.56
	16	157	4.1	0.05	140	144	7.7	6.9	7.7	200	200	0.20	1.09	3.5	3.3	1900	0	3	0	65	0.55
	17	144	4.3	0.05	140	144	7.9	6.9	7.6	204	200	0.59	1.09	3,5	3.3					63	0.58
	18	99	3.4	0.04	160	152	7.7	6.9	7.6	212	212	0.31	1.09	3.6	3.3		1			64	0.57
	19	83	3.7	0.05	160	156	7.7	6.9	7.6	216	212	0.26	1.09	3.6	3.5	1000	0	4	00	65	0.57
	20	97	4.1	0.04	168	160	7.8	7.0	7.7	208	212	0.27	1.07	3.6	3.3		0	3	0	65	0.58
	21	83	3.7	0.05	164	160	7.9	7.2	7.4	228	220	0.25	1.09	3.6	3.3					64	0.61
	22	65	3.3	0.07	156	160	7.9	7.2	7.5	220	220	0.24	1.09	3.4	3.3	900	<u> </u>			64	0.61
	23	63	3.3	0.07	164	156	7,8	7.4	7.4	216	216	0.23	1.11	3.4	3.2	ļ	0	3	0	64	0.57
	24	56	3.0	0.07	160	156	7.9	7.3	7.5	208	208	0.18	1.13	3.3	3.4	<del></del>	ļ			64	0.55
	25	58	2.8	0.07	164	160	7.8	7.3	7.4	204	204	0.25	1.09	3.5	3.5					64	0.55
	26	43	2.5 2.4	0.07	172 152	156 144	7.9	7.4	7.4	204	204	0.19	1.09	3.4	3.4	400	<del></del>		0	64	0.55 0.54
	28	56 68	2.6	0.07	148	144	7.8	7.4	7.4	208	212	0.23	1.09		3.5	400 1400	0 0	3	0	64	0.54
	29						7.8		7.4			0.21	1.06	3.5	3.4				0	~ <del> </del>	0.52
	30	65	2.5 2.4	0.08	144	140	7.9	7.4	7.4	192	184 200	0.22	1.07	3.1	3.3	1200 400	0 0	3		64	0.54
	31	63	3.8	0.06	140	140	7.9	7.3	7.4	200	204	0.21	1.09	3.5	3.9	400				63	0.50
TOTAL	<u> </u>	UU	3.0	1 0.00	170	170	1.5	7.5	/ ,**	1 200	204	0.23	1,03	3.5	3.3		1	.i 59	· · · · · ·	1_00	10.00
AVE	AVE	101	3.2	0.06	142	139	7.8	7.2	7.5	198	195	0.26	1.09	3.7	3.5	2478	0	3	0	63	0.57
MAX	MIN	35	1.3	0.04	112	112	7.5	6.8	7.1	176	160	0.20	1.06	3.1	3.1	400	0.	2	ŏ	58	0.50
MIN	MAX	194	6.0	0.09	184	180	8.3	7.5	7.7	228	220	0.59	1.13	4.6	4.0	9400	0	4	ő	65	0.71
,,,,,,	21						4.0		• • • •	~~~	~=-	0.00		1.00	110	<b>.</b> 100	•	•	-		<b></b>

RURBAN DISTRICT

FACILITY NO. 163-5040

GRANITE CITY, ILLINOIS

JUNE, 2003

DATE RAW   SET   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW   EFF   RAW	LANT DIS	L CL2 PM	PLANT DIST. SYSTEM WA	TER
1   58   2.2   0.06   132   140   7.7   7.0   7.6   200   192   0.24   1.08   3.4   3.9				MP. PHOS.
2   57   1.8   0.06   160   160   7.9   7.1   7.7   204   204   0.25   1.12   3.3   3.8   1400   0   3   56   2.8   0.05   156   152   7.8   7.1   7.6   208   200   0.21   1.10   3.5   3.8   10200   0   0   4   47   2.5   0.06   154   148   7.9   7.1   7.8   204   200   0.26   1.09   3.7   3.8   900   0   0   0   5   44   2.3   0.05   160   155   7.9   7.1   7.7   220   220   0.23   1.09   3.7   3.7   600   0   0   6   41   2.7   0.05   160   156   7.9   7.1   7.7   220   220   0.23   1.09   3.7   3.7   600   0   0   7   35   2.6   0.05   160   160   7.9   7.2   7.7   228   224   0.27   1.09   3.9   3.8   2400   0   0   0   0   0   0   0   0   0	EFF SAM		and the same with the first the same was a second of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of t	<u>F</u>
3   56   2.8   0.05   156   152   7.8   7.1   7.6   208   200   0.21   1.10   3.6   3.8   10200   0     4   47   2.5   0.06   154   148   7.9   7.1   7.8   204   200   0.26   1.09   3.7   3.8   900   0     5   44   2.3   0.05   160   160   160   8.0   7.1   7.7   220   220   0.23   1.09   3.7   3.7   600   0     6   41   2.7   0.05   160   160   8.0   7.2   7.7   228   224   0.27   1.09   3.9   3.8   2400   0     7   35   2.6   0.05   160   160   60   7.9   7.2   7.6   208   204   0.25   1.09   3.7   3.7     8   34   2.4   0.05   160   160   58   7.9   7.3   7.6   220   220   0.25   1.09   3.5   3.7     9   28   2.6   0.05   164   160   7.8   7.3   7.6   216   208   0.30   1.09   3.7   3.7   900   0     10   29   2.8   0.06   192   192   8.0   7.5   7.5   212   208   0.26   1.09   3.9   3.4   600   0     11   60   3.2   0.05   192   192   8.0   7.4   7.3   212   208   0.27   1.09   3.8   3.4   1100   0     13   88   1.5   0.05   164   168   8.1   7.5   7.6   212   212   0.22   1.09   3.6   3.5   3000   0     13   88   1.5   0.05   164   168   8.1   7.2   7.3   200   200   0.21   1.09   3.6   3.6   3.5   1400   0     14   56   1.9   0.05   164   168   7.9   7.2   7.6   204   204   0.29   1.09   3.6   3.6   3.6     15   45   2.3   0.05   164   168   7.9   7.2   7.6   204   204   0.13   1.09   3.8   3.4   1100   0     18   29   2.2   0.05   172   164   8.1   7.4   7.6   208   208   208   0.23   1.09   3.8   3.4   1100   0     18   29   2.2   0.05   172   164   8.1   7.4   7.6   216   216   216   0.22   1.15   3.9   3.4   400   0     19   27   2.5   0.06   180   168   8.0   7.5   7.6   244   232   0.27   1.09   3.8   3.3   3.4   3.0   200   221   222   223   223   223   224   224   224   227   225   225   225   0.06   180   188   8.0   7.5   7.6   244   232   0.27   1.07   3.7   3.5   222   31   1.9   0.06   180   188   8.0   7.5   7.6   244   232   0.27   1.07   3.7   3.5   3.5   3.5   3.00   0   24   2.2   2.0   0.06   180   180   188   8.0   7.5   7.6   240   240   0.27   1.03   3.4   3.5   600   0   24   2.2				2 0.51
4         47         2.5         0.06         154         148         7.9         7.1         7.8         204         200         0.26         1.09         3.7         3.8         900         0           5         44         2.3         0.05         160         160         80         7.9         7.1         7.7         220         220         0.23         1.09         3.7         3.7         600         0           6         41         2.7         0.05         160         160         8.0         7.2         7.6         208         204         0.25         1.09         3.7         3.7           8         34         2.4         0.05         160         156         7.9         7.3         7.6         220         220         0.25         1.09         3.7         3.7           9         28         2.6         0.05         164         160         7.8         7.3         7.6         210         220         220         0.25         1.09         3.5         3.7           9         28         2.6         0.05         192         192         8.0         7.5         7.5         212         208         0.3				5 0.52
5         44         2.3         0.05         160         156         7.9         7.1         7.7         220         220         0.23         1.09         3.7         3.7         600         0           6         41         2.7         0.05         180         180         8.0         7.2         7.6         208         204         0.27         1.09         3.7         3.7           8         34         2.4         0.05         160         156         7.9         7.3         7.6         220         220         0.25         1.09         3.7         3.7           9         28         2.6         0.05         164         160         7.8         7.3         7.6         220         220         0.25         1.09         3.7         3.7         900         0           10         29         2.8         0.06         192         192         8.0         7.5         7.5         212         208         0.27         1.09         3.9         3.4         600         0           11         60         3.2         0.05         192         188         8.1         7.5         7.6         212         212         1.				
6         41         2.7         0.05         160         160         8.0         7.2         7.7         228         224         0.27         1.09         3.9         3.8         2400         0           7         35         2.6         0.05         160         156         7.9         7.3         7.6         220         220         220         1.09         3.7         3.7         9           8         34         2.4         0.05         164         160         7.8         7.3         7.6         220         220         0.25         1.09         3.5         3.7         900         0           10         29         2.8         0.06         192         192         8.0         7.5         7.5         212         208         0.26         1.09         3.9         3.4         600         0           11         60         3.2         0.05         192         188         8.1         7.5         7.6         212         212         0.22         1.09         3.8         3.4         1100         0           12         34         2.5         0.05         164         168         8.1         7.2         7.6<	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second 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second second second second second second second second second second second second second second second second second second second second second second s		and the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of 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control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of th	5 0.51
7         35         2.6         0.05         160         160         7.9         7.2         7.6         208         204         0.25         1.09         3.7         3.7           8         34         2.4         0.05         160         156         7.9         7.3         7.6         220         220         0.25         1.09         3.5         3.7           9         28         2.6         0.05         164         160         7.8         7.3         7.6         216         208         0.30         1.09         3.7         3.7         900         0           10         29         2.8         0.06         192         8.0         7.5         7.5         212         208         0.26         1.09         3.9         3.4         600         0           11         60         3.2         0.05         192         188         8.1         7.5         7.6         212         212         0.02         1.09         3.8         3.4         1100         0           13         88         1.5         0.05         164         168         8.1         7.2         7.6 <t>204         204         0.29</t>				
8         34         2.4         0.05         160         156         7.9         7.3         7.6         220         220         0.25         1.09         3.5         3.7           9         28         2.6         0.05         164         160         7.8         7.3         7.6         216         208         0.30         1.09         3.7         3.7         900         0           10         29         2.8         0.06         192         192         8.0         7.5         7.5         212         208         0.26         1.09         3.9         3.4         600         0           11         60         3.2         0.05         192         188         8.1         7.5         7.6         212         212         0.02         1.09         3.8         3.4         1100         0           13         88         1.5         0.05         164         168         8.1         7.2         7.6         204         0.29         1.09         3.6         3.6         1400         0           14         56         1.9         0.05         164         168         8.1         7.2         7.6         204	0 3			
9         28         2.6         0.05         164         160         7.8         7.3         7.6         216         208         0.30         1.09         3.7         3.7         900         0           10         29         2.8         0.06         192         192         8.0         7.5         7.5         212         208         0.26         1.09         3.9         3.4         600         0           11         60         3.2         0.05         192         188         8.0         7.5         7.6         212         208         0.27         1.09         4.2         3.5         3000         0           12         34         2.5         0.05         192         188         8.1         7.5         7.6         212         212         0.22         1.09         3.6         3.5         1400         0           13         88         1.5         0.05         164         168         8.1         7.2         7.6         204         204         0.29         1.09         3.6         3.5         1400         0           15         45         2.3         0.05         164         168         7.9			<u> </u>	
10   29   2.8   0.06   192   192   8.0   7.5   7.5   212   208   0.26   1.09   3.9   3.4   600   0     11   60   3.2   0.05   192   192   8.0   7.4   7.3   212   208   0.27   1.09   4.2   3.5   3000   0     12   34   2.5   0.05   192   188   8.1   7.5   7.6   212   212   0.22   1.09   3.8   3.4   1100   0     13   38   1.5   0.05   164   168   8.1   7.2   7.6   204   204   0.22   1.09   3.6   3.5   1400   0     14   56   1.9   0.05   164   168   7.9   7.2   7.3   200   200   0.21   1.09   3.6   3.6   3.6     15   45   2.3   0.05   164   168   7.9   7.2   7.6   204   204   0.23   1.09   3.8   3.4     16   42   2.6   0.05   156   152   7.8   7.2   7.6   204   204   0.13   1.09   3.8   3.4     17   35   2.3   0.05   180   168   8.0   7.3   7.7   224   224   0.27   1.09   3.8   3.3   1100   0     18   29   2.2   0.05   172   164   8.1   7.4   7.6   220   220   0.16   1.18   3.8   3.4   800   0     19   27   2.5   0.06   180   176   8.0   7.4   7.6   216   216   0.22   1.15   3.9   3.4   400   0     20   24   2.2   0.05   140   140   7.9   7.4   7.6   240   236   0.26   1.08   4.0   3.6   3100   0     21   28   2.0   0.06   180   168   8.0   7.5   7.6   240   232   0.25   1.06   3.5   3.5     23   29   2.2   0.06   180   168   8.0   7.5   7.6   240   232   0.25   1.06   3.5   3.5     23   29   2.2   0.06   180   180   8.1   7.5   7.6   240   232   0.25   1.06   3.5   3.5     23   29   2.2   0.06   180   180   8.1   7.5   7.6   240   232   0.25   1.06   3.5   3.5     24   26   2.5   0.07   172   176   8.1   7.5   7.6   240   240   0.27   1.03   3.4   3.5   600   0     25   2.5   0.06   176   176   8.2   7.7   7.6   240   240   0.27   1.02   3.7   3.6   900   0     25   25   2.5   0.06   176   176   8.2   7.7   7.6   240   240   0.27   1.02   3.7   3.6   900   0     26   63   2.7   0.07   164   160   8.2   7.5   7.5   220   220   0.27   1.12   3.5   3.0   600   0     27   43   2.3   0.06   160   160   8.0   7.4   7.3   220   220   0.29   1.27   3.8   3.5   3400		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	£	
11         60         3.2         0.05         192         192         8.0         7.4         7.3         212         208         0.27         1.09         4.2         3.5         3000         0           12         34         2.5         0.05         192         188         8.1         7.5         7.6         212         212         0.22         1.09         3.8         3.4         1100         0           13         88         1.5         0.05         164         168         8.1         7.2         7.6         204         204         0.29         1.09         3.6         3.5         1400         0           15         45         2.3         0.05         164         168         7.9         7.2         7.6         204         204         0.21         1.09         3.8         3.4           16         42         2.6         0.05         156         152         7.8         7.2         7.6         208         208         0.23         1.09         3.8         3.4           17         35         2.3         0.05         180         168         8.0         7.3         7.7         224         224				
12         34         2.5         0.05         192         188         8.1         7.5         7.6         212         212         0.22         1.09         3.8         3.4         1100         0           13         88         1.5         0.05         164         168         8.1         7.2         7.6         204         204         0.29         1.09         3.6         3.5         1400         0           14         56         1.9         0.05         164         160         8.1         7.2         7.3         200         200         0.21         1.09         3.6         3.6           15         45         2.3         0.05         164         168         7.9         7.2         7.6         204         204         0.13         1.09         3.8         3.4           16         42         2.6         0.05         156         152         7.8         7.2         7.6         208         208         0.23         1.09         3.8         3.4           17         35         2.3         0.05         158         168         8.0         7.3         7.7         224         224         0.27         1.09				
13         88         1.5         0.05         164         168         8.1         7.2         7.6         204         204         0.29         1.09         3.6         3.5         1400         0           14         56         1.9         0.05         164         160         8.1         7.2         7.3         200         200         0.21         1.09         3.6         3.6           15         45         2.3         0.05         164         168         7.9         7.2         7.6         204         204         0.13         1.09         3.8         3.4           16         42         2.6         0.05         156         152         7.8         7.2         7.6         208         208         0.23         1.09         3.8         3.4           17         35         2.3         0.05         180         168         8.0         7.3         7.7         224         224         0.21         1.09         3.8         3.3         1100         0           18         29         2.2         0.06         180         176         8.0         7.4         7.6         220         220         0.01         1.18	a management of the action of the	talah kadi indi da 1985, papagan penagai pangan pangan bahasa bahasa bahasa bi	and the second commence of the second commence of the second commence of the second commence of	Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro
14         56         1.9         0.05         164         160         8.1         7.2         7.3         200         200         0.21         1.09         3.6         3.6           15         45         2.3         0.05         164         168         7.9         7.2         7.6         204         204         0.13         1.09         3.8         3.4           16         42         2.6         0.05         156         152         7.8         7.2         7.6         208         208         0.23         1.09         3.8         3.4           17         35         2.3         0.05         180         168         8.0         7.3         7.7         224         224         0.27         1.09         3.8         3.3         1100         0           18         29         2.2         0.05         172         164         8.1         7.4         7.6         220         220         0.16         1.18         3.8         3.4         800         0           19         27         2.5         0.06         180         176         8.0         7.4         7.6         216         216         0.22         1.15				
15         45         2.3         0.05         164         168         7.9         7.2         7.6         204         204         0.13         1.09         3.8         3.4           16         42         2.6         0.05         156         152         7.8         7.2         7.6         208         208         0.23         1.09         3.8         3.4           17         35         2.3         0.05         180         168         8.0         7.3         7.7         224         224         0.27         1.09         3.8         3.3         1100         0           18         29         2.2         0.05         172         164         8.1         7.4         7.6         220         220         0.16         1.18         3.8         3.4         800         0           19         27         2.5         0.06         180         176         8.0         7.4         7.6         216         216         0.22         1.15         3.9         3.4         400         0           20         24         2.2         0.05         140         140         7.9         7.4         7.6         240         236         <	0 3			
16         42         2.6         0.05         156         152         7.8         7.2         7.6         208         208         0.23         1.09         3.8         3.4           17         35         2.3         0.05         180         168         8.0         7.3         7.7         224         224         0.27         1.09         3.8         3.3         1100         0           18         29         2.2         0.05         172         164         8.1         7.4         7.6         220         220         0.16         1.18         3.8         3.4         800         0           19         27         2.5         0.06         180         176         8.0         7.4         7.6         216         216         0.22         1.15         3.9         3.4         400         0           20         24         2.2         0.05         140         140         7.9         7.4         7.6         240         236         0.26         1.08         4.0         3.6         3100         0           21         28         2.0         0.06         180         168         8.0         7.5         7.6 <t< td=""><td>,,,, ,</td><td></td><td></td><td>······</td></t<>	,,,, ,			······
17         35         2.3         0.05         180         168         8.0         7.3         7.7         224         224         0.27         1.09         3.8         3.3         1100         0           18         29         2.2         0.05         172         164         8.1         7.4         7.6         220         220         0.16         1.18         3.8         3.4         800         0           19         27         2.5         0.06         180         176         8.0         7.4         7.6         216         216         0.22         1.15         3.9         3.4         400         0           20         24         2.2         0.05         140         140         7.9         7.4         7.6         240         236         0.26         1.08         4.0         3.6         3100         0           21         28         2.0         0.06         180         168         8.0         7.5         7.6         244         232         0.27         1.07         3.7         3.5           22         31         1.9         0.06         180         180         8.1         7.5         7.6 <t< td=""><td></td><td>·</td><td>. 6</td><td></td></t<>		·	. 6	
18         29         2.2         0.05         172         164         8.1         7.4         7.6         220         220         0.16         1.18         3.8         3.4         800         0           19         27         2.5         0.06         180         176         8.0         7.4         7.6         216         216         0.22         1.15         3.9         3.4         400         0           20         24         2.2         0.05         140         140         7.9         7.4         7.6         240         236         0.26         1.08         4.0         3.6         3100         0           21         28         2.0         0.06         180         168         8.0         7.5         7.6         244         232         0.27         1.07         3.7         3.5           22         31         1.9         0.06         180         164         8.0         7.5         7.6         240         232         0.26         1.06         3.5         3.5         3.5           23         29         2.2         0.06         180         180         8.1         7.5         7.6         240         <		3.4		
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20         24         2.2         0.05         140         140         7.9         7.4         7.6         240         236         0.26         1.08         4.0         3.6         3100         0           21         28         2.0         0.06         180         168         8.0         7.5         7.6         244         232         0.27         1.07         3.7         3.5           22         31         1.9         0.06         180         164         8.0         7.5         7.6         240         232         0.26         1,06         3.5         3.5           23         29         2.2         0.06         180         180         8.1         7.5         7.6         240         240         0.27         1.03         3.4         3.5         600         0           24         26         2.5         0.07         172         176         8.1         7.6         7.6         240         240         0.27         1.02         3.7         3.6         900         0           25         25         2.5         0.06         176         176         8.2         7.7         7.6         244         240         <				The same of the same and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the s
21         28         2.0         0.06         180         168         8.0         7.5         7.6         244         232         0.27         1.07         3.7         3.5           22         31         1.9         0.06         180         164         8.0         7.5         7.6         240         232         0.26         1,06         3.5         3.5           23         29         2.2         0.06         180         180         8.1         7.5         7.6         240         240         0.27         1.03         3.4         3.5         600         0           24         26         2.5         0.07         172         176         8.1         7.6         7.6         240         240         0.27         1.02         3.7         3.6         900         0           25         25         2.5         0.06         176         176         8.2         7.7         7.6         244         240         0.28         1.15         3.8         4.1         1100         0           26         63         2.7         0.07         164         160         8.2         7.5         7.5         220         220         <	0 3		and the first property of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	
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24     26     2.5     0.07     172     176     8.1     7.6     7.6     240     240     0.27     1.02     3.7     3.6     900     0       25     25     2.5     0.06     176     176     8.2     7.7     7.6     244     240     0.28     1.15     3.8     4.1     1100     0       26     63     2.7     0.07     164     160     8.2     7.5     7.5     220     220     0.27     1.12     3.5     3.0     600     0       27     43     2.3     0.06     160     8.0     7.4     7.3     220     220     0.29     1.27     3.8     3.5     3400		3.5		
25     25     2.5     0.06     176     176     8.2     7.7     7.6     244     240     0.28     1.15     3.8     4.1     1100     0       26     63     2.7     0.07     164     160     8.2     7.5     7.5     220     220     0.27     1.12     3.5     3.0     600     0       27     43     2.3     0.06     160     160     8.0     7.4     7.3     220     220     0.29     1.27     3.8     3.5     3400	0 4	3.5 6		
26     63     2.7     0.07     164     160     8.2     7.5     7.5     220     220     0.27     1.12     3.5     3.0     600     0       27     43     2.3     0.06     160     160     8.0     7.4     7.3     220     220     0.29     1.27     3.8     3.5     3400	0 3	3.6 9		
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	and the second section of the second second	3.4		
29 50 2.3 0.05 164 164 7.8 7.3 7.3 224 224 0.21 1.11 3.8 3.6		3.6		4 0.51
30 27 2.6 0.06 164 160 7.8 7.5 7.4 224 220 0.21 1.14 3.9 3.6		3.6	7	4 0.55
31				
TOTAL	57		57	
AVE AVE 41 2.4 0.06 167 164 8.0 7.3 7.6 219 217 0.24 1.10 3.7 3.6 1816 0	0 3	3.6 18	0 3 0 6	9 0.53
MAX MIN 24 1.5 0.05 132 140 7.7 7.0 7.3 200 192 0.13 1.02 3.3 3.0 400 0	0 3	3.0 40	0 3 0 6	2 0.48
MIN MAX 88 3.2 0.07 192 192 8.2 7.7 7.8 244 240 0.30 1.27 4.2 4.1 10200 0	0 4	4.1 102	0 4 0 7	4 0.57

GRANITE CITY, ILLINOIS

JULY, 2003

		T	URBIDIT NTU	Υ	ALKAI Pi	_INITY PM		PH		HARD Pl	NESS PM		PM	RESIDU	JAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	R
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100m RAW	I Col/100m EFF	NO.	NO. >1	TEMP.	. PHOS
ſ <del></del>	1	24	2.4	0.06	160	160	8.0	7.5	7.4	220	220	0.18	1.16	4.0	3.5	500	0	3	0	74	0.54
	<u></u>	37	1.4	0.06	164	160	7.8	7.4	7.4	212	212	0.29	1.09	3.9	3.5	200	+ <u>0</u>	3		74	0.54
	3	49	1.6	0.05	148	148	7.7	7.3	7.3	208	208	0.20	1,06	4.0	3.6			† <del></del>	<del>-</del>	75	0.53
	4	31	1.6	0.05	148	142	7.7	7.4	7.3	204	204	0.23	1.07	3.9	3.6	1,000,000,000	ļ	1		75	0.55
	5	28	1.4	0.06	148	140	7.7	7.4	7.3	208	208	0.21	1.07	3.7	3.2			1		75	0.53
	6	28	1.4	0.06	144	140	7.7	7.4	7.3	204	204	0.19	1.15	3.8	3.5			1	.,	76	0.54
and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	7	29	1.2	0.06	152	156	7.8	7.4	7.3	216	216	0.24	1.18	3.8	3.4	500	0	4	0	76	0.53
	8	27	1,2	0.06	156	156	7.8	7.4	7.3	208	208	0.31	1.11	3.8	3.4	300	0	3	Q	76	0.54
	9	29	1.1	0.07	168	164	7.7	7.4	7.3	204	204	0.24	1.09	3.8	3.5	700	0	3	O.	77	0.56
	10	51	1.4	0.07	180	168	8.1	7.5	7.3	224	224	0.25	1.10	3.9	3.6	700	0	3	0	77	0.57
	11	62	1.2	0.07	180	172	8.0	7.4	7.3	224	224	0.26	1.14	4.2	3.8	1000	0	1 .		75	0.56
	12	80	1.2	0.06	164	168	7.8	7.4	7.4	216	216	0.33	1.16	4.1	3.9					77	0.59
	13	123	1.2	0.06	172	168	7.7	7.3	7.3	208	208	0.28	1.11	4.1	3.9					77	0.56
	14	121	1.6	0.06	152	140	7.9	7,3	7.2	184	188	0.16	1.01	4.5	4.2	2200	0	4	0	75	0.54
	15	100	1.7	0.06	148	140	8.0	7.3	7.2	188	180	0.30	1,03	4.3	4.0					76	0.60
	16	85	1.9	0.06	160	148	7.9	7.3	7.3	192	192	0.28	1.10	4.2	4.0	1100	0	3	0	75_	0.61
	17	77	1.5	0.06	160	152	7.7	7.4	7.3	200	196	0.31	1.02	4.1	3.9	400	0	3	0	77	0.63
I CANADATA I	18	78	1.6	0.06	164	152	7.8	7.4	7.3	200	196	0.30	1.06	3.8	3.6	400	0	3	0	77	0.62
	19	89	1.8	0.06	160	152	7.7	7.4	7.3	224	224	0.29	1.12	4.2	3,9					76	0.64
	20	109	1.9	0.06	160	140	7,7	7.3	7.2	216	216	0.26	1.07	4,1	3.9					77	0.63
	21	117	1.7	0.06	144	140	7.7	7.3	7.2	192	188	0.26	1.03	3.9	3.7	4800	0	4	0	77	0.61
	22	69	1.8	0.06	156	148	7.7	7.3	7.3	196	188	0.33	1.09	3.9	3.8	2100	0	3	0	77	0.58
	23	54	2.0	0.06	160	148	7.8	7.4	7.3	200	196	0.29	1.16	4.0	3.9	1500	0	3	0	76	0.62
	24	49	1.9	0.06	156	144	7.8	7.4	7.3	208	200	0.29	1.14	4.4	3.8	1200	0	3	0	77	0.62
	25	48	2.0	0.06	164	152	7.9	7.4	7.2	212	200	0.30	1.06	4.3	3.8	900	0	3	0	77	0.63
	26	39	1,9	0.07	160	148	7.8	7.4	7.2	200	200	0.26	1.02	4.1	3.7					77	0.60
	27	34	1.8	0.06	156	144	7.8	7.4	7.2	200	200	0.28	1.01	4.0	3.6					77	0.63
	28	34	1.9	0.06	172	156	8.1	7.5	7.3	208	204	0.27	0.97	3.7	3.5	200	0	4	0	77	0.60
	29	33	1,8	0.06	168	156	8.0	7.5	7.3	224	224	0.27	1.06	3.9	3.7	700	0	3	0	77	0.62
	30	31	1.6	0.06	176	164	8.0	7.5	7.2	224	224	0.27	1.03	3.8	3.7	300	0	3	0	77	0.65
	31	29	1.8	0.06	176	164	8.1	7.5	7.3	224	224	0.27	1.01	3.9	3.5	400	0	3	0	77	0.60
TOTAL																		61			
AVE	AVE	58	1.6	0.06	161	153	7.8	7.4	7.3	208	206	0.26	1.08	4.0	3.7	1005	0	3	0	76	0.59
MAX	MIN	24	1.1	0.05	144	140	7.7	7.3	7.2	184	180	0.16	0.97	3.7	3.2	200	0	3	0	74	0.53
MIN	MAX	123	2.4	0.07	180	172	8.1	7.5	7.4	224	224	0.33	1.18	4.5	1.0	4800	0	4	0	77	0.65

GRANITE CITY, ILLINOIS

AUGUST,2003

		T	URBIDIT NTU	Y	ALKAL Pi	INITY M		PH		HARD P	NESS PM		PM	RESIDU F	AL CL2 PM		PLANT	DIST. SY	STEM	WATER	₹
					МО	MO						<b>5</b>		TL-CL2			I Col/100ml		NO.	TEMP.	. PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW		SAMPLES	>1	<u>F</u>	
	1-1-	28	1.7	0.06	172	156	8.2	7.5	7.3	208	208	0.42	0.93	3.9	3.2	900	0	3	0	77	0.60
<u></u>	2	24	1.7	0.06	168	156	8.1	7.5	7.3	204	204	0.30	0.94	3.8	3.2		ļ <u>.</u>			77	0.61
	3	23	1.7	0.06	152	152	8.2	7.5	7.3	200	200	0.23	0.96	3.7	3.4					77	0.59
	4	23	1.6	0.06	160	156	8.1	7.5	7.3	208	208	0.33	0.92	3.6	3.6	1100	0	4	0	77	0.60
l	5	20	1.6	0.06	176	164	8.1	7.5	7.3	208	208	0.25	0.94	3.9	3.4	900	0	3	0	77	0.58
	6	20	1.5	0.06	152	148	8.2	7.5	7.3	212	212	0.27	0.92	3.6	3.2	200	0	3	0	77	0.58
	7	20	1.5	0.06	160	156	8.2	7.6	7.3	220	212	0.27	0.91	3.6	3.2	900	0	3	0	76	0.53
	8	22	1.4	0.07	164	156	8.2	7.7	7.3	216	216	0.26	0.89	3.7	3.2	900	0	3	0	76	0.56
ļ	9	24	1.8	0.07	164	152	8.2	7.7	7.3	212	212	0.17	0.94	3.3	3.1	ļ	<u> </u>	ļ		76	0.54
 	10	24	1.4	0.08	160	144	8.3	7.7	7.4	212	212	0.22	0.91	3.4	3.1		<u> </u>	ļ		76	0.52
	11	25	1.5	0.08	160	148	8.4	7.8	7.4	208	204	0.23	1.10	3.5	3.2	500	0	4	0	76	0.54
<u> </u>	12	21	1.7	0.06	160	140	8,2	7.7	7,3	204	204	0.25	1.10	3.4	3.6	800	0	3	0	76	0.53
	13	19	1.4	0.05	140	140	8.2	7.5	7.3	200	204	0.28	1.12	3.4	3.6	400	0	3	0	78	0.50
	14	19	1.3	0.05	152	140	8.3	7.5	7,2	200	200	0.28	1.08	3.7	3.5	600	0	3	0	77	0.49
	15	19	1.3	0.05	152	148	8.3	7.5	7.3	204	204	0.29	1.11	4.1	3.5	1900	0	3	0	77	0.52
	16	19	1.3	0.06	152	148	8.2	7.5	7.3	204	200	0.27	1.08	4.0	3.3		<u> </u>			78	0.49
	17	20	1.2	0.06	148	148	8.2	7.6	7.3	204	200	0.28	1.10	4.0	3.5	ļ		ļ		78	0.46
	18	18	1.2	0.07	140	144	8.2	7.6	7.3	200	200	0.21	1.06	4.0	3.4	700	0	4	0	78	0.46
	19	19	1.6	0.09	148	140	8.5	7.7	7.5	204	204	0.25	1.01	4.2	3.5	100	0	3	0	78	0.51
<u> </u>	20	16	1.6	80.0	148	148	8.5	7.7	7.4	204	204	0.23	1.03	4.3	3.8	300	0	3	0	79	0.45
<u> </u>	21	14	1.7	0.06	168	156	8.4	7.6	7.4	212	208	0.23	1.00	4.5	3.7	500	0	3	0	79	0.52
İ	22	15	1.4	0.09	164	160	8.4	7.5	7.3	208	208	0.22	1.08	4.5	3.8	400	0	3	0	79	0.48
	23	16	1.5	0.07	164	156	8.3	7.5	7.3	204	204	0.27	1,12	4.4	3.6	1	<u> </u>			79	0,50
	24	18	1.5	0.06	164	156	8.3	7.5	7.3	208	204	0.30	1.07	4.3	3.5		<u> </u>			79	0.47
į	25	19	1.6	0.06	160	152	8.4	7.5	7.3	192	184	0.30	1,02	4.2	3.6	100	0	4	Ü	80	0.49
	26	19	1.5	0.06	148	140	8.4	7.5	7.3	196	180	0.36	1.03	4.3	3.5	100	0	3	0	78	0.50
	27	17	1.7	0.07	164	144	8.4	7.5	7.3	188	184	0.27	1.05	2.7	3.7	100	0	3	0	80	0.47
	28	19	1.6	80,0	152	140	8.4	7.3	7.2	188	180	0.27	1.09	2.0	3.5	300	0	3	0	80	0.48
	29	18	1.8	0.08	156	140	8.3	7.3	7.2	192	184	0.29	1.09	2.6	3,6	400	0	3	0	78	0.49
	30	21	1.8	0.07	162	160	8.2	7.3	7.2	216	208	0.34	1.10	2.8	3.9		l			80	0.49
	31	29	1.7	0.07	160	148	8.0	7.3	7.2	216	216	0.34	1.13	2.5	3.8					79	0.51
TOTAL																	to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se	67			
AVE	AVE	20	1.5	0.07	158	150	8.3	7.5	7.3	205	202.45	0.27	1.0	3.7	3	576	0	3	٥	78	0.52
MAX	MIN	14	1.2	0.05	140	140	8.0	7.3	7.2	188	180.00	0.17	0.9	2.0	3	100	0	3	0	76	0.45
MIN	MAX	29	1.8	0.09	176	164	8.5	7.8	7.5	220	216.00	0.42	1.1	4.5	4	1900	0	4	0	80	0.61

GRANITE CITY, ILLINOIS

SEPT. 2003

		T	URBIDIT NTU	Υ	ALKAI Pi	JINITY PM		PΗ		HARD Pi	NESS PM		PM	RESIDU	IAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
					MO	MO								TL-CL2	TL-CL2	Col/100m	Col/100ml	NO.	NO.	TEMP.	. PHOS.
	DATE	RAW	SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	>1	F	
	1	47	1.9	0.07	156	140	8.0	7.3	7.2	196	192	0.29	1.14	2.5	3.7					78	0.49
	2	71	1.6	0.05	148	132	7.8	7.2	7.4	180	176	0.29	1.11	2.1	3.0	6200	0	3	0	78	0.50
	3	37	1.7	0,05	152	144	7.8	7.2	7.4	188	192	0.26	1.07	2.2	3.4	4200	0	3	Ö	79	0.49
	4	43	2.0	0.05	152	144	7.7	7.2	7.4	192	188	0.27	1.08	2.4	3.9	2900	0	3	0	79	0.49
	5	56	2.5	0.04	136	132	7.6	7.2	7.4	180	180	0.31	1.04	2.7	3.9	3400	0	3	0	76	0.51
	6	54	2,5	0.05	120	120	7.6	7.0	7.5	160	164	0.21	1,03	2.5	3.8					76	0.55
	7	40	2.2	0.05	124	120	7.6	7.1	7.4	168	168	0.27	1.07	2.7	3.9		1			76	0.51
	8	34	1.9	0.05	128	128	7,4	7.2	7.6	164	168	0.22	1.09	3.3	3.6	1800	0	4	0	76	0.52
j	9	31	1.8	0.05	128	124	7.5	7.2	7.6	160	168	0.20	1.04	2.9	3.8	800	0	3	0	76	0.52
	10	28	1.7	0.05	132	132	7.6	7.2	7.5	152	156	0.24	1,07	2.8	3.9	500	0	3	0	76	0.52
	11	26	1.8	0.05	136	144	7.7	7.2	7.6	180	180	0.23	1.09	2.7	3.7	2000	. 0	3	0	76	0.50
	12	26	2.0	0.05	152	152	7.6	7.3	7.6	192	184	0.25	1.10	2.8	3.5	500	Ö	3	0	77	0,53
	13	25	1.7	0.05	152	148	7.8	7.3	7.6	188	188	0.30	1.11	2.4	3.5			ĺ		77	0.51
	14	24	1.7	0.05	156	148	7.8	7.3	7.6	192	192	0.29	1.05	3.4	3.9					76	0.52
	15	24	1.9	0.05	156	156	7.7	7.3	7,7	188	188	0.25	1,06	2.8	2.9	400	0	4	0	76	0.53
	16	26	1.7	0.06	156	156	8.0	7.4	7.7	184	184	0.27	1.10	2.2	3.0	400	0	3	0	75	0.54
	17	25	1.6	0.07	156	152	8.2	7.5	7.6	184	184	0.21	1.03	2.3	3.5	100	0	3	0	75	0.55
	18	23	1.6	0.06	148	148	8.1	7,4	7.5	172	172	0.26	1.05	3.0	3,7	100	0	3	0	75	0.52
	19	25	1.8	0.07	136	136	8.0	7.4	7.5	180	172	0.30	1.06	3.1	3.4	1700	0	3	0	75	0.53
-	20	24	1.8	0.07	176	172	8.0	7.4	7.5	184	176	0.27	1.03	2.9	3,6					75	0.52
	21	23	1.9	0.07	168	148	8.0	7.5	7.5	188	176	0.27	1.06	2.7	3.6					74	0.53
	22	21	1.8	0,06	160	156	8.1	7.5	7,6	180	180	0,25	0.99	2.7	3.7	700	0	4	0	74	0,56
	23	21	1.9	0.07	168	160	8.2	7.6	7.7	192	192	0.26	1.07	4.1	4.0	1400	0	3	0	74	0.55
	24	22	1.9	0.06	164	156	8.2	7.6	7.6	204	204	0.24	0.97	3.7	3.9	400	0	3	0	74	0.54
	25	20	1.9	0.05	160	160	8.2	7.5	7.6	200	200	0.23	0.99	4.1	4.0					73	0,53
	26	20	2.2	0.07	140	144	8.3	7.6	7.5	180	172	0,24	1.07	4.1	3.9	4700	0	3	0	72	0.53
	27	20	2.2	0.06	160	140	8.1	7.6	7.5	160	140	0.23	1.04	4.1	3.7					75	0.53
	28	20	2.4	0.06	160	148	8.0	7.6	7.6	160	148	0.23	1.17	4.1	3.5		.,			74	0.55
	29	23	2.6	0.08	152	144	7.9	7.6	7.5	152	144	0.28	1.10	4.1	3.5	1600	0	4	0	72	0.57
	30	22	2.2	0.04	140	140	8.0	7.5	7.5	188	184	0.30	1.04	4.4	4.2	400	0	3	0	72	0.55
	31			1 212	1		<del></del>	1				7.23	1.15	-		+	<del></del>				1
TOTAL		1		·			1	1	1		<del></del>	<del></del>		,n±				64	***************************************		
AVE	AVE	30	1.9	0.06	149	144	7.9	7.4	7.5	180	177	0.26	1.06	3.1	3.7	1710	0	3	0	75	0.53
MAX	MIN	20	1.6	0.04	120	120	7.4	7.0	7.2	152	140	0.20	0.97	2.1	3.7	100	ŏ	3	ŏ	72	0.53
MIN	MAX	71	2.6	0.04	176	172	8.3	7.6	7.7	204	204	0.20	1.17	4.4	3.7	6200	Ö	4	Õ	79	0.53
IATHA	IVI	11	2.0	0.00	170	112	0.0	1.0	1.7	207	ZU-7	0.01	1.17	77.7	0.1	0200	·	т	v	, ,	0.00

GRANITE CITY, ILLINOIS

OCT. 2003

		Т	URBIDIT NTU	Ý		PM		PΗ			NESS PM		ORIDE PM	RESIDU	PM		PLANT	DIST. SY	STEM	WATER	
					MO	MO								TL-CL2			l Col/100ml		NO.	TEMP.	PHOS.
	DATE	personal residence in the same	SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW		SAMPLES	>1	F	
	1_1_	22	2.2	0.04	160	156	8,0	7.4	7.4	184	180	0.28	1.03	4.2	3.9	300	Ω	3	0	71	0.51
	2	22	1.5	0.04	132	140	7.9	7,5	7.5	192	188	0.28	1.00	4.1	3.7	500	0	3	0	70	0.54
	3	24	1.7	0.05	140	140	7.8	7.6	7.7	184	180	0.25	1.05	4.1	4.0	500	0	3	00	68	0.52
	4	22	2.2	0.08	140	144	7.9	7.6	7.6	180	180	0.26	0.99	3.9	3.9			·		66	0.54
A	5	23	1.8	0.06	144	144	8.0	7.6	7.6	184	180	0.25	1.04	3.6	3.7	<u> </u>	<u> </u>			64	0.51
	6	23	2.0	0.04	152	148	8.1	7.6	7.7	184	180	0.27	0.97	3.7	3.6	300	0	4	0	66	0.50
	7	22	3.6	0.04	152	156	8.0	7.5	7.8	180	172	0.25	0.97	2.4	3.1	400	0	3	0	68	0.50
	8	21	5.3	0.05	156	152	8.1	7.5	7.6	180	180	0.11	0,98	1.9	3.7	900	0	3	0	68	0.52
<u> </u>	9	20	3.1	0.05	156	156	8.1	7.5	7.7	188	184	0.25	1.01	1,9	3.8	200	0	3	<u> </u>	68	0.49
·	10	21	3.3	0.07	160	156	8.1	7.5	7.6	188	180	0.28	1.01	1.8	3.9	1600	0	3	0	65	0.50
	11	20	2.8	0.04	156	152	8.2	7.6	7,7	188	180	. 0,24	1.04	2.3	3.6		ļ			66	0.50
<u></u> .	12	20	1.7	0.04	158	156	8.0	7.7	7.8	200	200	0.23	1.02	3.9	4.4		:			67	0.52
	13	18	1.6	0.05	160	156	8.1	7.8	7.8	180	180	0.26	1.04	3.8	3.9	400	. 0	4	. 0	67	0.52
	. 14	18	1.6	0.04	160	160	8.2	7.8	7.7	188	188	0.31	1.06	4.1	3.8	800	0	3	0	67	0.57
	15	18	1.6	0.05	164	160	8.1	7.8	7.7	188	188	0.19	1,14	4.0	4.0	500	0	3	0	67	0.53
	16	16	1.7	0.05	172	160	8.1	7,8	7.7	192	196	0.27	1.16	3,8	3.7	400	0	3	0	67	0.52
	. 17	17	1.8	0.05	168	152	8.2	7.8	7.7	192	192	0.27	1.11	3,9	3.7	1100	0	3	00	67	0.51
and the first or a second second	: 18	21	1.8	0.05	156	152	8.5	7.8	7.6	196	184	0.20	1.08	3.8	3,5	<u> </u>	ļ			68	0.53
	19	22	1.8	0,06	160	148	8.4	7.8	7.6	192	192	0.21	1.08	4,2	3.5					67	0.54
	20	24	2.1	0.07	164	156	8.4	7.9	7.6	204	200	0.23	1.11	4.2	3.3	2100	0	4	0	66	0.51
	21	18	2.0	0.05	1 <del>6</del> 0	152	8.4	7.8	7.5	208	204	0.33	1.11	4.2	3.5	100	0	3	0	66	0.52
	22	17	1.9	0.06	164	152	8.4	7.7	7.5	204	204	0.28	1.07	4.1	3.5	100	0	3	0	65	0.50
	23	17	2.0	0.04	168	156	8.4	7.7	7.5	212	212	0.24	1.13	3.8	3.5	100	0	3	0	66	0.51
	24	17	1.6	0.06	188	164	8.2	7.7	7.5	200	200	0.23	1.12	3.6	3.3	2400	0	3	0	62	0.52
	25	17	1.8	0.04	184	168	8.2	7.7	7,5	196	196	0.29	1.11	3.6	3.3					62	0.52
	26	15	1.9	0.04	188	172	8.1	7.7	7.5	200	196	0.25	1.11	3.7	3.0					62	0.52
	27	15	1.8	0.04	188	176	8.1	7.7	7.4	196	196	0.25	1.09	3.6	3.8	600	0	4	0	61	0.52
-4174	28	15	1,7	0.04	184	184	8.2	7.6	7.4	196	192	0,18	1.05	3.6	3,3	400	0	3	_ 0	61	0.49
:	29	15	1.6	0.04	188	184	8.1	7.6	7.5	196	196	0.20	1.07	3.6	3.1	300	0	3	0	60	0.53
	30	16	2.1	0.04	164	152	8.2	7,7	7.4	204	208	0.26	1.11	3.5	3.3	300	0	3	0	66	0.54
i	31	16	3.0	0.04	172	156	8.3	7.7	7.5	200	200	0.26	1.04	3,7	2.9	1000	0	3	_0	64	0.52
TOTAL		<u>,                                     </u>				arananan kananan												73			
AVE	AVE	19	2.1	0.05	163	157	8.2	7.7	7.6	193	190.58	0.25	1.06	3.6	3.6	665	0	3	0	66	0.52
MAX	MIN	15	1.5	0.04	132	140	7.8	7.4	7.4	180	172.00	0.11	0.97	1.8	2.9	100	0	3	0	60	0.49
MIN	MAX	24	5.3	80.0	188	184	8.5	7.9	7.8	212	212.00	0.33	1.16	4.2	4.4	2400	Ō	4	0	71	0.57
										_ · <del>_</del>								-	_		

RURBAN DISTRICT

ACILITY NO. 163-5040

GRANITE CITY, ILLINOIS

NOVEMBER,2003

		T	URBIDIT NTU	Y		PM		PH		HARD. Pf	NESS PM		RIDE PM		PM		PLANT	DIST. SY		WATER	
	DATE	DANA	OCT.		MO	MO	D ALAI	CCT	pro per per	DANA		D 4141		TL-CL2			i Col/100mi		NO.		PHOS.
	DATE		SET	EFF	RAW	EFF	RAW	SET	EFF 7.5	RAW	EFF	RAW	EFF	SET	EFF	RAW	EFF	SAMPLES	>1	F	0.50
		14	2.3	0.05	168	160	8.2	7.7		200	200	0.23	1.02	3.8	3.4	 	<del></del>			62	0.52
	2	13	2.7	0.04	172	160	8.2	7.6	7.5	204	204	0.24	1.02	3.9	3,6		<del> </del>			62	0.52
	3	13	2.7		168	160	8.2	7.6 7.6	7.4	208	208	0.27	1.06	3.9	3.7	900	0	4	0	62	0.53
	4	16	2.7	0.04	176	164	8.3		7.4	208	208	0.30	1.04	4.0	3.8	600	U	3	0	62	0.52
	5	18	2.8	0.04	176	160	8.2	7.6	7.4	200	200	0.22	1.15	3.8	3.5	600				63	0.50
	6	20	2.7	0.04	160	148	8.3	7.6	7.5	200	200	0.31	1.07	3.7	3.2	500	0	4	0	63	0.54
	7	20	3,7	0.04	152	148	8.1	7.6	7.4	196	196	0.17	1.15	3.8	3.5	300	ļ <mark>9</mark>	3	V	62	0.54
	8	21	3.6	0.04	160	156	8.0	7.6	7.4	204	204	0.26	1.12	3.7	3.6		İ			62	0.53
	9	21	3.5	0.04	152	152	8.0	7,6	7.4	204	200	0.23	1.03	3.6	3.3	: 	1			62	0.53
	10	18	3.6	0.04	172	156	8.0	7.6	7.4	204	204	0.31	1.09	3.6	3.1					60	
	11	18	3.9	0.04	156	144	7.8	7.6	7.4	212	212	0.23	1.10	3.8	3.7	4000	<del> </del>			58	0.56
	12	21	4.1	0.05	160	152	7.9	7.6	7.4	216	216	0.26	1.10	3.8	3.8	1200			·	59	0.55
	13	20	4.9	0.05	156	156	8,1	7.7	7.5	220	216	0.33	1.10	3.5	3.5	400	0	4	0	60	ALTERNATIVE WINE CAMPAGE AND
	14	17	4.0	0.05	160	152	8.1	7.8	7.5	216	212	0.27	1.07	3.7	3.9	900	0	3	V	58	0.60
	15	15	4.0	0.06	160	156	8.2	7.8	7.5	220	220	0.31	1.15	3.9	3.9		<u>}</u>			58	0.60
	16	14	4.1	0.06	164	152	7.9	7.7	7.6	200	212	0.33	1.14	4.0	4.0		ļ			57	0.60
	17	14	3.6	0.06	164	156	8.0	7.8	7.6	204	208	0.31	1.01	4.1	4,1	2000	0	4	00	58	0.58
	18	103	5.6	0.05	120	140	8.3	7.7	7.5	200	204	0.26	1.17	3.9	3.9	3000	0	4	0	58	0.55
	19	97	6.9	0.06	124	140	7,7	7.4	7.4	192	192	0.30	1.10	3.8	4.1	3100	<u> </u>			56	0.60
	20	78	6.0	0.05	140	140	7.8	7.6	7.5	180	188	0.22	1.10	3.6	3.9	12400	0	4	0	55	0.60
,	21	57	5.2	0,05	140	144	7.6	7.5	7.4	180	184	0.29	1.07	3.7	4.0	10500	0	3	0	55	0.58
	22	52	4.6	0.04	160	148	7.5	7.5	7.4	204	204	0.29	1.12	3.7	3.8	:	<u> </u>	-		58	0.57
	23	52	4.3	0.04	168	144	7.5	7.5	7.3	204	204	0.31	1.10	3.8	4.0	}	1	<u> </u>		58	0.56
- <del></del>	24	48	6.3	0.04	160	144	7.4	7.5	7.3	200	192	0.35	1.21	4.0	3.8	4800	0	4	0	58	0.59
	25	44	4.4	0.04	168	148	7.5	7.6	7.3	200	196	0.40	1,12	3.8	3.9	10400	0	4	0	57	0.57
	26	45	4.5	0.04	156	144	8.0	7.6	7.4	200	188	0.37	1.12	3.8	3,9		ļ			57	0.57
	27	46	5.6	0.07	160	144	7.8	7.5	7.5	196	196	0.34	1.15	3.7	3.9		.,		·	57	0.58
· · · · · · · · · · · · · · · · · · ·	28	49	5.5	0.07	164	152	7.9	7.6	7.5	212	216	0.32	1.12	3.5	4.0					56	0.60
	29	38	6.0	0.04	176	160	8,0	7.7	7.5	240	240	0.28	1.18	3.4	3.5		<u>,</u>			55	0.57
	30	30	5.7	0.04	176	172	8.0	7.7	7.5	240	240	0.22	1,10	3.3	3.5			<u>!</u>		55	0.56
	31	-			1									<u> </u>	<u> </u>	·	<u> </u>				
<b>TOTAL</b>																	_	44	_		
4VE	AVE	34	4.3	0.05	160	152	8.0	7.6	7.4	205	205	0.28	1.10	3,8	3.7	3440	0	4	0	59	0.56
MAX	MIN	13	2.3	0.04	120	140	7.4	7.4	7.3	180	184	0.17	1.01	3.3	3.1	300	0	3	0	55	0.50
MIN	MAX	103	6.9	0.07	176	172	8.3	7.8	7.6	240	240	0.40	1.21	4.1	4.1	12400	0	4	0	63	0.60

ERURBAN DISTRICT

FACILITY NO. 163-5040

GRANITE CITY, ILLINOIS

DEC., 2003

		Т	URBIDIT NTU	Υ	ALKAL Pi	INITY M		PΗ			ONESS PPM		ORIDE PM		JAL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
					MO	MO								TL-CL2		Col/100ml			NO.		PHOS.
	DATE		SET	EFF	RAW	EFF_	RAW	SET	EFF	RAW	EFF	RAW	<u>EFF</u>	SET	EFF	RAW	<u>EFF</u>	SAMPLES	>1	<u>_</u>	<del> </del>
	1	31	5,9	0.04	172	160	8.0	7.7	7.5	212	212	0.30	1.09	3,2	3.4	800	0	4	0	55	0.57
	2	29	4.6	0.04	168	160	7.9	7.7	7.6	216	216	0.26	1.10	3.1	3.3	600	0	4	0	53	0.56
	3	25	4.0	0.04	168	164	8.1	7.8	7.5	212	212	0.24	1.11	3.2	3,3	1200	0	<u> </u>	0	54	0.56
	4	24	5.2	0.04	168	160	8.0	7.8	7.6	228	224	0,30	1.13	3.8	3.8	300	0	4	0	53	0.59
	5	26	5.6	0.04	180	168	8.2	7.8	7.6	240	240	0.26	1.16	3.8	3,8	1600	0	3	0	58	0.58
	: 6	24	6.0	0.06	180	164	8.0	7.7	7.6	248	260	0.23	1.17	3.8	3.5				.,	56	0.56
	7	21	5.0	0.05	160	160	8.1	7.7	7.6	248	240	0.18	1.09	3.7	3,5		-			56	0.53
	8	18	5.4	0.04	172	172	8.2	7.9	7.7	248	240	0,21	1.11	3.6	3,8	1400	0	4	<u> </u>	54	0.57
	9	18	5.6	0.04	180	172	8.3	7.9	7.6	232	240	0.21	1.14	3.6	3,7	400	0	3	<u> 0</u>	57	0.56
	10	22	6.0	0.04	172	160	8.4	7.9	7.7	240	240	0.22	1.09	3.5	3.6	700	0	0	<u> </u>	50	0.55
	11	62	3.7	0.04	184	186	8.4	7.7	7.6	246	232	0.23	1.12	4.0	4,2	2800	0	4	0	44	0.51
	12	80	4.4	0.04	180	180	8.1	7.8	7.5	228	228	0.17	1.16	4.0	4.1	1100	0	3	0	44	0.54
	13	96	7,6	0.05	176	176	8.7	7.6	7.5	220	220	0.22	1.12	4.0	4.2	<u> </u>	1	]		43	0.55
	14	80	12.3	0.08	180	184	7.8	7,5	7.5	224	228	0.24	1.15	4.0	4.2					43	0.54
	15	63	9.3	0.06	140	144	7.7	7.5	7.3	190	198	0.28	1,05	4.3	3.8	2000	0	4	0	40	0.52
	16	73	11.7	0.07	144	132	7.3	7.6	7.4	196	192	0.24	1.13	3.2	3.4	10400	0	4	0	41	0.56
	17	75	11.4	0.06	148	136	7.5	7.5	7.4	200	200	0.20	1.18	3.1	3.9	7900	0	0	00	40	0.54
	18	62	10.9	0.07	160	144	7.4	7,6	7.5	208	208	0.24	1.13	3.4	3.7	1500	0	4	0	. 39	0.55
	19	50	10.4	0.06	164	148	7.4	7.3	7.4	224	220	0.23	1,13	3.6	4,0	1400	0	3	0	. 39	0.54
	20	40	7.0	0.05	164	152	7.5	7.6	7.5	224	224	0.20	1.14	3.6	3.9	<u> </u>				39	0.54
	21	34	5.8	0.07	168	152	7.5	7.6	7.5	224	220	0.23	1,15	3,7	3.7		ļ		·········	39	0.54
	22	31	6.0	0.07	180	168	7.5	7.6	7.5	240	240	0.27	1.12	3.8	3.6	1200	0	4	0	40	0.54
	23	33	7.4	0.07	156	156	7.6	7.6	7.5	216	212	0.17	1.08	3.8	3.8				-1577	41	0.54
	24	40	7.1	0.05	168	160	7.6	7.6	7.5	212	220	0.12	1,07	3.7	3.8					41	0.58
	25	48	7.3	0.06	164	160	7.5	7.7	7.6	200	216	0.36	1.07	3.7	3.7					47	0.52
	26	45	6.4	0.06	160	152	7.4	7.7	7.5	200	208	0.31	1.11	3.7	4.0	1000	0	3	0	47	0.53
	27	31	5.0	0.05	172	152	7.4	7.7	7.6	200	212	0.31	1.11	3.8	3.6			\		47	0.55
	28	25	4.2	0,05	180	168	7,5	7.7	7.6	224	220	0.31	1,12	3.9	3.6			Ţ		47	0.58
	29	21	4.8	0.05	180	160	7.6	7.8	7.7	242	240	0.23	1.07	3,1	3.5	2300	0	4	0	43	0.57
	30	20	4.4	0.04	188	172	7.6	7.8	7.7	256	260	0.28	1.10	3.7	3.8	8800	0	3	0	43	0.58
	31	20	5.3	0.04	184	184	7.4	7.8	7.7	264	264	0.25	1,05	2.6	3.8					43	0.55
TOTAL		اسستـــــــــــــــــــــــــــــــــــ	~ <del>T</del>					L	k.,	·			<u> </u>	. <del></del>	- II			58			
AVE	AVE	41	6.6	0.05	170	161	7.8	7.7	7.5	225	225.35	0.24	1.11	3.6	3.7	2495	0	3	0	46	0.55
MIN	MIN	18	3.7	0.04	140	132	7.3	7.3	7.3	190	192.00	0.12	1.05	2.6	3.3	300	Ö	Ō	ō	39	0.51
MAX	MAX	96	12.3	0.08	188	186	8.7	7.9	7.7	264	264.00	0.36	1,18	4.3	4.2	10400	ō	4	ō	58	0.59
	.,,, • (	-	14.4	0,00	100	.00	<b></b>		• • •	<b></b>	_00	0.00	,,,,	,,,	.,_		<del>-</del>	,	=		

### GRANITE CITY, ILLINOIS

JANUARY, 2002

		Τ	URBIDIT NTU	Υ	ALKAL PF MO	YTINI. M MO		РН		HARD Pi	NESS PM		RIDE PM	RESIDU F TL-CL2	PPM		PLANT	DIST. SY NO.	STEM NO.	WATER	t PHOS.
	DATE	RAW	SET	EFF	RAW	EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	SET	EFF	RAW		SAMPLES	>1	F.	11100.
	1 1	18	6.8	0.05	200	192	8.3	8.6	7.5	268	268	0.25	1.08	4.2	3.9					37	0.42
	2	18	7.6	0.05	184	172	8.3	7.6	7.5	236	236	0.21	1.02	4.5	4.0	1400	0	3	0	42	0.38
	3	16	5.8	0.05	200	192	8.4	7.7	7.5	232	232	0.25	1,09	4.1	3.9	1200	0	3	0	42	0.39
	4	16	5.0	0.04	188	180	8.4	7.8	7.6	240	240	0.17	1.02	4.1	3.8	1000	0	3	0	42	0.38
	5	15	5.3	0.04	192	184	8.4	7.8	7.6	240	240	0.22	1.01	4.1	3.8					42	0.38
	6	14	5.2	0.05	188	196	8.3	7.8	7.6	240	240	0.22	1.02	4.1	3.7					42	0.39
	7	17	5.9	0.05	192	184	8.4	7.7	7.6	240	240	0.17	1.08	4.2	3.1	1000	0	4	0	41	0.38
	8	17	6.1	0.05	192	188	8.5	7.8	7.6	260	252	0.18	1.04	4.4	3.8	1100	0	3	0	37	0.41
	9	19	6.1	0.05	192	182	8.5	7.8	7.6	240	240	0.23	1.12	4.4	3.8	800	0	3	0	37	0.37
	10	18	6.1	0.05	188	176	8,5	7.8	7.6	240	240	0.19	1.10	4.4	3.8	1000	0	3	0	37	0.38
	11	19	6.5	0.06	200	180	8.5	7.7	7.6	240	240	0.16	1.11	4.3	3.8	500	0	2	0	37	0.39
	12	19	6.1	0.05	200	180	8,6	7.9	7,7	248	248	0.26	1.11	4.3	3,9	<u> </u>				36	0.40
	13	18	5.3	0.05	200	184	8.7	7.9	7.7	248	248	0.29	1.10	4.4	3.8			<b> </b>		38	0.40
	14	20	5.1	0.05	212	208	8.6	7.8	7.7	260	260	0.21	1.08	4.2	3.8	1000	0	4	0	36	0.43
	15	20	5.2	0.05	200	188	8.6	7.8	7.7	256	256	0.21	1.14	4.2	3.8	1300	0	3	0	37	0.42
	16	19	5.0	0.05	200	192	8,5	7.8	7.7	260	260	0.22	1.10	4.2	4.0	1000	0	3	0	37	0.43
	17	17	5.6	0.04	200	192	8.5	7.7	7.7	256	256	0.15	1.11	4,5	3.8	1000	0	3	0	37	0.42
	18	17	5.9	0.04	200	192	8.5	7.8	7,7	256	256	0.15	1.12	4.4	3.8	1900	0	3	0	36	0.42
	19	16	5.3	0.04	200	172	8.6	7.8	7.7	248	240	0.12	1,06	4.2	3.8					39	0.41
	20	16	5.1	0.04	200	176	8.6	7.8	7.7	242	240	0.26	1.04	4.3	4.0	4800	ļ <u>-</u>	<del> </del>		36	0.42
	21	17	4.7	0.04	212	204	8.6	7.8 7.8	7,7	260	264 260	0.23	1.10	4.2	3.9	1600 1500	0	4	<u>0</u>	37	0.43
	22	16	4.1	0.04	212	200	8,6 8,7	7.9	7.7	260 260	260	0.20	1,11	4.2	4.0	800	0	3	0	$\frac{37}{37}$	0.41
	23	17	4.1	0.04	208				7.7	260	260	0.19	1.14	4.2	3.8	1500	0	3	0	37	0.41
	24	16	4.5	0.04	213	210	8.7	7.8	7.8	264	264	0.19	1.13	4.3	4.0	1500	0	3	0	36	0.41
	25	17	4.6	0.04	212	200	8.7 8.8	8.0	7.8	248	248	0.17	1,11.	4.3	3.9	1500		3	<u> </u>	40	0.43
		15	4.0	0.04	218	204	8.7	8.0	7.8	252	244	0.22	1.00	4.3	3.9					40	0.43
	27	15	4.4	0.04	200	192	8.8	8.0	7.8	248	240	0.23	1.07	4.3	4.0	1400	0	4	0	41	0.41
	29	16	4.5	0.04	200	188	8.8	8.0	7.8	256	240	0.17	1.09	4.3	3.9	2400	0	3	0	41	0.41
	30	16	4.3	0.04	192	180	8.7	7.7	7.8	252	248	0.19	1.09	4.3	3.9	10100	0	3	0	41	0.41
	31	151	6.7	0.05	180	172	8.6	7.8	7.7	244	240	0.23	1.11	4.1	3.8	6700	<del></del>	3	<del></del> 0	41	0.41
OTAL		101		0.00	100	1.74	0.0	1	<u> </u>	1 44-7-7		1 0.20		1		0.00	1	69			1 5
/E	AVE	21	5.3	0.05	200	189	8.6	7,8	7.7	250	248	0.21	1.09	4.3	3.8	1895	0	3	0	39	0.41
IN	MIN	14	4.1	0.04	180	172	8.3	7.6	7.5	232	232	0.12	1.00	4.1	3.1	500	ŏ	2	ō	36	0.37
AX		151	7.6	0.06	218	210	8.8	8.6	7.8	268	268	0.29	1.15	4.5	4.0	10100	Õ	4	ő	42	0.43
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FACILITY NO. 163-5040

GRANITE CITY PLANT GRANITE CITY, ILLINOIS

FEB., 2002

		T	URBIDIT NTU	Y	ALKAL PP			PH			NESS PM		ORIDE PM	RESIDU F	AL CL2 PPM		PLANT	DIST. SY	STEM	WATER	<b>}</b>
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100m RAW	I Col/100m EFF	I NO. SAMPLES	NO. >1	TEMP. F	PHOS.
	1 1	202	9.4	0.05	196	160	8.4	7.6	7.5	228	228	0.24	1.05	3.0	3,4	5800	G	3	Û	4.2	0,39
	2	187	7.8	0.04	168	156	8.3	7.6	7.4	224	220	0.20	1.07	3.5	3.9					39	0.41
	3	203	10.5	0.05	156	140	8.2	7.5	7.4	200	200	0.23	1.12	3.6	3.7					39	0.41
	4	176	11.7	0.05	140	126	8.0	7.3	7.2	184	200	0.23	1.07	3.4	3.6	5300	Q	4	G	41	0.40
	5	11.7	11.7	0.05	150	140	8.1	7.4	7.3	212	220	0.20	1.13	3.6	3.8	3000	0	3	0	4.0	0.40
	6	89	10.1	5.04	160	140	8.2	7.4	7.3	220	220	0.23	1.0B	3.8	3.7	2500	0	3	Ŋ	39	0.40
	7	75	9.9	0.04	172	156	8.2	7.5	7.3	236	236	0.26	1.11	4.1	3.8	1800	0	3	0	37	0.41
	8	65	θ.7	0.05	180	160	8.3	7.6	7.4	244	244	0.25	1.08	4.0	4.0	2900	Ω	3	٥	38	Q.4D
	9	61	6.6	0.04	184	172	8.3	7.5	7.5	260	256	0.29	1.10	4.3	4.1					39	0.42
	10	58	6,9	0.04	184	168	8.3	7.5	7.5	252	256	0.25	1.13	4.2	3.7					41	G.54
	11	61	7.5	0.04	180	172	8.3	7.5	7.5	252	252	0.23	1.06	4.2	3.8	2900	0	4	G	40	0.48
	12	56	6.7	0.04	180	172	8.4	7.6	7.5	248	252	0.20	1.14	4.1	3.9	1200	0	3	D	41	0.52
	13	52	6.8	0.04	184	180	8.4	7.5	7.5	252	256	0.23	1.10	4.2	3.9	2100	0	3	a	4.1	0.51
	14	49	6.0	0.04	188	180	8.5	7.6	7.6	260	260	0.22	1,15	4,2	4.2	1300	Ç.	3	Ø	41	0.51
	15	51	6.4	0.05	184	180	8.5	7.7	7.6	260	260	0.23	1.07	4.0	4.0	1100	C)	3	Ů	41	0.51
	16	53	Б.7	0.04	188	180	8.5	7.7	7,6	260	260	0.22	1.06	4,2	3.9					4.2	0.44
	17	49	6.9	0.04	184	180	8.5	7.7	7.6	260	264	0.20	1.06	4.1	4.0					4.2	0.44
	18	46	5.1	0.04	184	180	8.6	7.7	7.6	260	260	0.20	1.10	4.2	4.2	1700	Ü	4	O	42	0.42
	19	46	5.1	0.04	192	172	8.7	7.9	7.6	240	240	0.23	1.08	4.0	4.1	700	6	3	0	4.5	0.42
	20	46	5.5	0.04	188	180	8.6	7.B	7.6	244	244	0.24	1.11	4.3	3.9	2800	0	3	b	44	0.42
	21	51	6.2	0.04	196	184	8.6	7.7	7.6	240	240	0.21	1.04	4.1	3.6	1800	0	3	0	44	0.41
	22	47	6.0	0.04	188	188	8.4	7.6	7.6	252	252	0.24	1.10	4.0	3.9	1500	0_	3	0	4.4	0.40
	23	46	4.1	0.04	188	180	8.6	7.8	7.6	256	260	0.22	1.10	4.0	ā.1					4.5	0.42
	24	48	3.6	0.04	188	180	8.7	7.8	7.6	248	248	0.21	1.09	4.0	4.2			1		44	0.41
	25	62	5.6	0.04	184	176	8.7	7.5	7.6	260	360	0.20	1.07	4.2	3.7	2200	0	4	0	4.5	0.39
	26	73	5.8	0.04	196	180	8.7	7.8	7.6	256	256	0.22	1.11	4.1	3 . 8	1900	G	3	Q.	45	3.39
	27	54	7.5	0.04	192	176	0,7	7.8	7.6	264	260	0.23	1.14	3.8	3.8	2100	0	3	0	44	0.42
	28	50	6.8	0.04	192	180	8.6	7.7	7.5	264	2.64	0.23	1.05	4,3	3.9	1100	0	3	0	45	0.40
	29																				
L	30																				
	31			<u> </u>							<u></u>			1	<u> </u>						
	AVE MIN MAX	78 46 203	7.2 3.6 11.7	0.04 0.04 0.05	181 140 196	169 128 188	8.4 8.0 8.7	7.6 7.3 7.9	8 7 8	244 184 264	245,29 200,00 264,00	0.23 0.20 0.29	1.1 1.0 1.2	4.0 3.0 4.3	4 3 4	2285 700 5800	0 0 0	3 3 4	0 0 0	42 37 45	1 0 3

GRANITE CITY, ILLINOIS

MARCH, 2002

		T	URBIDIT NTU	Y	ALKAL PF			PΗ		HARD PF	NESS PM		RIDE PM	RESIDU F	AL CL2 PPM		PLANT	DIST. SY	STEM	WATER	
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100m RAW	Col/100m EFF	NO. SAMPLES	NO. >1	TEMP. F	PHOS.
	1 1	50	5.9	0.04	200	189	8.6	7.7	7.6	280	268	0.21	1.11	4.6	4.0	300	Û	3	0	44	0.40
	2	57	6.6	0.04	204	180	8.6	7,8	7.6	280	268	0.21	1.61	4.5	4.0					4.3	0.41
	3	97	8.8	0.04	200	180	0.5	8.6	7.5	280	276	0.23	1.10	4.1	4.0					40	0.41
	4	68	6.8	0.04	192	180	8.5	7.6	7.6	260	268	0.20	1.08	4.2	4.0	2200	0	4	O	3.5	0.40
	5	58	6.7	0.04	188	172	8.5	7.6	7.5	260	260	0.16	1,06	4.3	4.1	2000	- 0	3	0	38	0.41
	6	48	6.3	0.04	196	180	8.5	7.6	7.6	260	260	0.24	1.06	4.1	4.1	2500	υ	3	O	3,9	0.40
	7	44	5.9	0.04	200	180	8.4	7,5	7.5	272	272	6.19	1.04	4.3	4.1	1300		3	0	40	0.41
	8	43	4.5	0.04	200	180	8.5	7.6	7.5	276	276	0.31	1.09	4.3	4.1	1100	0	3	. 0	42	0.42
	9	95	5.7	0.04	200	192	8.4	7.5	7.5	268	272	0.21	1.06	4.1	3.9					44	0.39
	10	124	6.2	0.04	200	188	8.5	7.6	7.5	260	260	0.22	1.12	3.7	3.E					44	0,39
	11	40	4.8	0.04	204	192	8.6	7.7	7.6	268	272	0.23	1.08	4.2	4.0	4900	0	4	٥	4.4	0.39
	12	44	5.1	0.04	200	188	8.6	7.7	7.6	268	268	0.19	1.04	4.0	3.4	3000	0	3	Ü	44	0.35
	13	52	4.9	0.04	200	192	8.6	7.7	7.6	272	272	0.23	1.09	3.6	3.5	2200	р	3	Q	44	0.33
	14	72	6.0	0.04	2.04	188	8.6	7.7	7.6	276	272	0.22	1.04	3.7	3.6	2600	0	2	0	4.4	0.35
	15	69	8,4	0.04	196	188	8.4	7.7	7.6	268	268	0.18	1.04	3.6	3,7	2300				4.5	0.45
	16	67	7.4	0.03	192	180	8.3	7.6	7.5	260	260	0.24	1.06	4.0	3.3					45	0.48
	17	59	7.0	0.04	192	184	8.4	7.6	7.5	268	268	0.22	1.01	3.8	3.4					44	0.48
	18	55	6.2	0.04	184	182	8.4	7.6	7.5	264	264	0.20	1.04	4.0	3.6	3000	ð	4	Ö	44	0.48
	19	52	€,4	0.04	184	176	B.4	7.7	7.5	268	268	0.22	1.10	3.9	3,5	1500	១	3	0	45	0.59
	20	4.6	6.3	0.04	188	176	8.3	7.6	7.5	260	260	0.20	1.16	3.8	3,4	1700	0	3	0	46	0.59
	21	49	5.7	0.04	180	176	8.3	7.6	7.5	268	268	0.22	1.13	4.0	3.3	2500	0	3	0	46	0.59
	22	37	5.5	0.04	108	176	8.3	7.6	7.5	272	268	0.23	1.15	3.9	3.5	2100	٥	3	0	47	0.59
	23	31	5.1	0.04	196	176	8.4	7.7	7,5	276	276	0.25	1.13	4 - 1	3.5					45	0.62
	24	28	4.1	0.04	192	180	8.5	7.7	7.5	264	280	0.18	1.16	3.9	3.5					46	0.62
	25	64	4.2	0.04	192	176	8.5	7.7	7.5	272	240	0.21	1.15	4.0	3.4	6000	Ç	4	Ø	4.6	0.62
	26	55	5.2	0.04	180	176	8.4	7.7	7.5	260	260	0.21	1.08	3.6	3.5	6700	0	3	O	45	0.57
	27	51	5.0	0.04	184	172	8.5	7.6	7.5	260	250	0.18	1.08	4.0	3.6	3300	Ů	3	۵	43	0.56
	28	66	4.5	0.05	180	172	8.5	7.6	7.5	248	256	0.20	2.05	4.0	3.5					44	0.54
	29	66	5.2	0.04	180	162	8.5	7.5	7,5	244	248	0.21	1.06	3.8	3.5	<u> </u>				44	0.55
	30	51	4.4	0.04	172	160	8.5	7.6	7.5	248	240	0.22	1.07	3.7	3.4	1				44	0.55
L	31	44	4.0	0.04	180	154	8.5	7.7	7.5	252	244	0.20	1.08	3.7	3.4					44	0.50
TOTAL																		57			
AVE MAX MIN	AVE MIN MAX	58 28 124	5.8 4.0 8.8	0.04 0.03 0.05	192 172 204	179 160 192	8,5 8.3 8.6	7.7 7.5 8.6	7.5 7.5 7.6	266 244 280	266 240 280	0.21 0.16 0.31	1.08 1.01 1.16	4.0 3.6 4.6	3.7 3.3 4.1	2695 300 6700	0 0 0	3 2 4	0 0 0	44 38 47	0.48 0.33 0.62

GRANITE CITY, ILLINOIS

APRIL, 2002

		T	URBIDIT' NTU	Y	ALKAL PP			PH		HARD Pf	NESS PM		PM	RESIDU F	AL CL2 PM		PLANT	DIST. SY	STEM	WATER	
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100m RAW	Col/100ml	NO. SAMPLES	NO. >1	TEMP. F	PHOS.
	1	35	3.5	0.04	184	160	8.5	7.7	7,5	252	244	0.27	1.11	3.9	3.3	2900	0	4	Q	44	0.56
	2	30	3.1	0.04	188	180	8.6	7.6	7.5	252	252	0,23	1.15	3.9	3.3	2700	٥	3	Ď	48	0.57
	3	33	3.6	0.04	184	178	8.6	7.6	7.5	252	252	0.20	1.11	4.0	3.9	1400	a	2	٥	46	0.60
	4	33	3.7	0.04	188	180	0.5	7.6	7.5	256	260	0.21	1.16	3,9	3.3	900	0	3	Q.	4"7	0.62
	. 5	30	3 . 4	0.04	188	180	B.7	7,7	7.6	252	252	0.20	1.16	3.8	3.3	1900	0	3	ū	4.8	0.61
	6	28	3.1	0.04	184	176	8.7	7.8	7.6	252	252	0.22	1.18	3.5	3.2					48	0.56
	7	29	3.1	0.05	184	176	9.7	7.8	7.6	252	252	0.22	1.20	3.9	3.3					49	0.60
	8	.33	3.1	0.04	180	176	8.7	7.8	7.5	240	240	0.22	1.11	4.0	3.2	1000	O .	4	ū	48	0,58
	9	42	3,6	0.04	184	178	8.6	7.7	7.6	236	236	0.20	1.10	3.7	3.4	3600	0	. 3	Ò	4.8	0.50
	10	52	3.3	9.04	184	164	8.6	7.7	7.5	228	228	0.17	1.16	3.9	3.4	1300	6	3	0	4.9	0.57
	11	74	3.6	0.04	176	172	8.6	7.7	7.5	228	228	0.32	1.15	4.0	3.4	1400	٥	3	Ü	50	0.60
	12	87	3.3	0.05	168	156	8.5	7.6	7.5	232	232	0.21	1.11	3.5	3.3	400	٥	3	0	50	0,62
	13	81	3 - 4	0.04	176	168	8.3	7.6	7.5	232	232	0.20	1.07	3 - 8	3.5		<u> </u>			50	0.64
	14	72	3.5	0.04	172	164	8.3	7.5	7.4	235	235	0.18	1.09	3.5	3.7		<u> </u>			54	0.60
	15	62	3.2	0.04	168	160	8.3	7.6	7.4	244	232	0.21	1.14	3.9	3.7	700	0	4	0	47	0.61
	16	56	2.9	0.04	172	164	8.2	7.6	7.4	244	244	0.19	1.07	4.2	3.7	900	0	3	0	55	0.58
	17	56	3 . 1	0.04	180	164	8.2	7.6	7.4	248	248	0.21	1.06	4.4	3.6	400	. 0	3	. 0	57	0.60
	18	56	1.2	0.04	176	154	8.2	7.6	7.4	260	260	0.26	1.14	4.5	3.8	400	0	3	Ŋ	56	0.52
	19	56	3.1	0.04	176	168	8.1	7,6	7.4	256	256	0.23	1.09	4.5	3.7	3100	0	3	0	56	0.59
	20	108	2.7	0.04	184	168	8.1	7.4	7.3	248	248	0.23	1.12	4.4	3.7					65	0.59
	21	102	3.0	0.04	176	164	8.0	7.4	7.3	244	240	0.18	1.16	4.4	3.6					64	0.62
	22	84	2.9	0.05	172	160	7.3	7.4	7.3	263	232	0.24	1,08	4.5	3,5	5100	0	4	Ω	63	0.65
	23	121	2.6	0.05	168	156	7.8	7.4	.7.2	228	224	0.22	1.11	4.5	3.4	2800	0	3	. 0	62	0.70
	24	104	4.4	0.04	168	156	7.9	7.3	7.2	236	236	0.22	1.69	2,9	3.4	4300	1	]		62	0.66
<u> </u>	25	8.5	4.4	0.04	168	152	7.9	7.2	7.2	236	236	0.22	1.11	3.0	3.5	5600	0	3	0	60	0.56
	26	145	4.0	0.04	168	160	8.4	7.3	7.2	228	228	0.18	1.09	2.8	3.6	2200	0	3	0	59	0.70
	27	181	3.5	0.05	152	136	7.8	7.2	7.1	196	200	0.20	1.12	2.3	3.6					58	0.71
	28	150	4.8	0.04	152	140	7.8	7.2	7.1	196	2,00	0.18	1.08	2.6	3.7					56	0.69
	29	205	6.6	0.05	140	128	7.7	7.2	7.1	1.84	188	0.18	1-03	2 - 3	3.7	6200	0	4	0	55	0.58
	30	157	7.3	0.05	120	112	7.6	7.0	7.0	164	162	0.15	1.05	2.0	3.6	4400	Q	3	0	55	0.60
	31			L			L	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u></u>	<u> </u>					
TOTAL																		67	•		
AVE	AVE	80	3.6	0.04	173	162	8.3	7.5	7.4	236	234	0.21	1.11	3.7	3.5	2436	0	3	0	54	0.62
MAX	MIN	28	2.6	0.04	120	112	7.6	7.0	7.0	164	162	0.15	1.03	2.0	3.2	400	0	2	0	44	0.56
MIN	MAX	205	7.3	0.05	188	180	8.7	7.8	7.6	263	260	0.32	1.20	4.5	3.9	6200	0	4	0	65	0.71

GRANITE CITY, ILLINOIS

MAY, 2002

		T	URBIDIT' NTU	1	ALKAL! PP			PH		HARDI PF	NESS PM		PM	RESIDU F	AL CL2 PM		PLANT	DIST. SY	STEM	WATER	
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100m RAW	I Col/100m EFF	NO. SAMPLES	NO. >1	TEMP. F	PHOS.
	1	129	4.9	0.05	136	120	7.7	7.2	7.1	176	172	0.17	1.07	4.4	3.8	5600	0	3	0	56	0.60
	2	138	4.8	0.04	132	120	7.7	7.3	7.1	172	172	0.17	1.13	4.0	3.8	3000	0	3	. 0	58	0.61
	3	131	4.8	0.04	140	120	7.7	7.3	7.1	176	176	0.18	1.08	4.4	3.6	2600	0	3	0	57	0.59
	4	88	3.7	0.04	120	120	7.7	7.3	7.1	180	180	0.21	1.07	4.7	3.6					56	0,60
	5	67	2.3	0.04	152	140	7.8	7.3	7.2	196	196	0.16	1.10	4.6	3.6					5.6	0.56
	6	129	3.0	0.05	152	140	7,9	7.3	7.2	200	200	0.21	1.09	4.5	3.4	1400	0	4	0	59	0.60
	7	224	3.4	0.07	136	128	7.8	7.3	7.1	1,60	180	0.23	1.11	4.0	3.5	1600	0	3	а	60	0.51
	8	215	4.7	0.06	124	116	7.6	7.1	7.0	168	160	0.21	1.10	3.7	3.4	TNC	٥	3	0	60	0.59
	9	170	3.6	0.07	104	112	7.6	7.1	7.3	148	148	0.19	1.09	3.6	3.4	TNC	o .	3	0	61	0.61
	10	99	3.3	30.0	108	112	7.6	7.1	7.3	160	168	0.20	1.07	4.4	3.7	2800	0	3	0	61	0.59
	11	9.3	3.6	9.06	112	120	7.B	7.2	7.3	168	168	0.20	303	4.2	3.5			ŧ		61	0.62
	12	109	4.3	0.06	112	120	7.7	7.1	7.3	168	172	0.23	1.10	4.0	3.6					61	0.60
	13	156	4.7	0.06	108	112	7.7	7.2	7.2	160	164	0.20	1.10	4.0	3.6	6300	Q	4	Ď	61	0.58
	14	109	3.6	0.06	116	116	7.6	7.1	7.3	164	160	0.18	1.12	2.7	3.5	5500	0	3	0	62	0.58
	15	114	5.0	0.07	108	100	7.5	7.0	7.2	1.40	144	0.21	1,10	3.5	3.6	3400	.0	3	0	60	0.57
	16	116	5.4	0.07	100	100	7.5	7.0	7.2	144	144	0,20	1.09	3.5	3.5	2000	. 0	3	٥	62	0.58
	17	94	6.7	0.07	108	104	7.6	7.0	7.3	140	140	0.21	1.09	3.9	3.6	3100	D.	3	0	62	0.58
	18	78	8.1	0.06	108	108	7.5	7.1	7.3	140	140	0.22	1.13	4.2	3.6					60	0.58
	19	6.8	6.2	0.07	112	116	7.5	7,3	7.4	160	160	0.18	1.10	4.0	3.5					60	0.58
	20	67	5.3	0.05	128	124	7.5	7.2	7.3	1.64	164	0.20	1.10	4.0	3.7	2300	0	4	0	60	0.51
	21	72	4.7	0.05	128	128	7.5	7.2	7.3	172	172	0.21	1.07	3.9	3.6	2800	O	3	Ø	59	0.58
	22	75	4.4	0.05	120	120	7.6	7.2	7.3	172	172	0.21	1.12	4.0	3.6	2000	9	3	0	60	0.59
	23	76	4.7	0.05	132	124	7.6	7.3	7.3	184	184	0.23	1.09	3.6	3.6	2100	0	3	ū	60	0.58
	24	77	4.3	0.05	128	124	7.6	7.3	7,3	184	184	0.20	1.12	4.3	3.6	1500	o o	3	Û	60	0.58
	25	75	4.3	0.05	132	132	7.6	7.3	7.3	184	192	0.28	1.10	4.1	3,4					62	0.56
	26	75	2.9	0.06	140	140	7.7	7.3	7.3	208	192	0.27	1.10	3.8	3.5				-	62	0.62
	27	67	2.8	0.05	140	136	7.7	7.3	7.3	192	192	0.25	1.18	4.4	3.5					63	0.59
	28	64	2.7	0.05	140	140	7.7	7.2	7.3	196	195	0.28	1.16	3.8	3.5	6500	0	3	0	62	0.58
	29	64	3.0	0.05	136	136	7.7	7.3	7.3	196	196	0.21	1.18	4.3	3.€	5600	0	3	0	62	0.58
	30	64	2.8	0.05	144	136	7.6	7.2	7.3	200	192	0.23	1.16	4.3	3.4	500	Q	3	Ŋ	62	0.58
	31	67	2.9	0.05	152	144	7.6	7.3	7.4	200	200	0.18	1.19	4.2	3.3	5900	۵	3	0	63	0.58
TOTAL											·					***************************************		69			<u> </u>
AVE	AVE	102	4.2	0.06	126	123	7.6	7.2	7.2	174	174	0,21	1.11	4.0	3.6	3325	0	3	0	60	0.59
MAX	MIN	64	2.3	0.04	100	100	7.5	7.0	7.0	140	140	0.16	1.03	2.7	3.3	500	0	3	0	56	0.56
MIN	MAX	224	8.1	0.07	152	144	7.9	7.3	7.4	208	200	0.28	1.19	4.7	3.8	6500	0	4	0	63	0.62

# PURIFICATION PLANT F T ILLINOIS-AMERICAN WATER COMPANY RURBAN DISTRICT GRANITE CITY PLANT

FACILITY NO. 163-5040

#### GRANITE CITY, ILLINOIS

JUNE, 2002

	٦	TURBIDIT NTU	Υ	ALKAL Pf			PΗ		HARD Pi	NESS PM		ORIDE PM	RESIDU F	AL CL2 PM		PLANT	DIST. SY	STEM	WATER	₹
DAT	E RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100m RAW	Col/100ml	NO.	NO. >1	TEMP. F	. PHOS.
1	68	2.7	0.05	144	140	7.7	7.3	7.3	208	204	0.23	1,15	4.4	3.4	Ţ				64	0.69
2	61	2.5	0.05	128	148	7.7	7.3	7.3	220	212	0.20	1.20	4.2	3.6					65	0.72
3	59	2,6	0.05	1.4.8	148	7.8	7.4	7.3	212	220	0,25	1.15	4.7	3.6	900	.0	4	I)	66	0.69
4	55	2.6	0.05	143	140	7.8	7,4	7,3	220	220	0.28	1.17	4.0	3.6	200	0	3	0	67	0.66
5	54	2.7	0.04	152	148	7.8	7.4	7.4	228	220	0.27	1.21	4.2	3.6	800	.0	3	Ů.	68	0.71
6	58	2.6	0.04	152	152	7.9	7,4	7.3	224	216	0.22	1.21	4.4	3.5	600	D	3	0	68	0.70
7	58	2.8	0.04	160	160	7.8	7,4	7.3	236	236	0.23	1.15	4.4	3.6	1300	0	3	Ġ.	6.8	0.73
8	58	2.6	0.04	160	160	7.B	7.5	7.4	236	236	0.23	1.14	4.4	3,5					6.9	0.69
9	71	2.4	0.04	1.68	150	7.8	7.4	7.4	224	228	0.23	1.1B	4.4	3.6					69	0.72
10	85	2.9	0.04	168	150	7.8	7.3	7.3	228	228	0.23	1.10	4.4	3.7	1700	D.	4	0	6.9	0.70
11	116	2.9	0.04	156	156	7.9	7.4	7,3	220	224	0.20	1.13	4.4	3.E	1800	Ū	3	0	69	0.70
12	208	2,7	0.04	140	140	7.8	7.3	7.2	196	196	0.21	1.15	4.3	3.6	11100	Ü	3	0	69	0.61
13	165	2.9	0.04	144	144	7.7	7.3	7.2	196	196	0.20	1.09	4.1	3.8	3700	٥	·š	0	6.9	0.65
14	178	3.3	0.04	1.40	144	7.6	7.3	7.2	196	192	0.20	1.13	3,0	3.6	4700	0	3	0	70	0.64
15	153	3.3	0.05	140	140	7.6	7.3	7.3	108	188	0.26	1.13	3.6	3.3	<u> </u>	<u> </u>			7.0	0.63
16	121	3.3	0.05	144	140	7.6	7.2	7.3	196	192	0.20	1.09	4.2	3 . 4					70	0.63
17	98	3.1	0.05	120	124	7.5	7.3	7.3	156	164	0.21	2.14	3.9	3.3	2600	. 0	4	- 0	70	0.65
18	8.9	2.6	0.05	120	124	7.6	7.4	7.3	168	180	0.21	1,11	3.8	1.5	1600	0	3	0	71	0.63
19	74	3.0	0.04	120	128	7.7	7.3	7.3	180	180	0.25	1.15	4.6	3.7	2000	0	3	0	71	0.55
20	70	2.8	0.04	140	144	7.7	7.3	7.3	180	180	0.26	1.14	4.5	3.6	1700	0	3	0	7.2	0.58
21	68	2.7	0.04	148	140	7.7	7.3	7.2	192	192	0.15	1.11	4,7	3.8	1500	0	3	Q.	72	0.63
22	66	2.7	0.04	152	144	7.7	7.3	7,3	196	195	0.31	1.12	4.7	3.7	ļ				72	0.65
23	61	2.7	0.04	152	152	7.7	7.3	7.4.	200	200	0.27	1.17	4.5	3.6	<u> </u>				72	0.68
24	52	2.6	0.04	168	150	7.7	7,3	7,4	204	204	0.22	1.15	નું. 4	3.5	500	0	5	0	72	0.68
25	50	2.7	0.04	160	160	7,9	7.4	7.4	236	224	0.25	1.15	4.4	3.6	4500	0	3	0	74	0.69
26	49	2.7	0.04	164	160	7.9	7.5	7.4	236	228	0.22	1.18	4.3	3.8	1500	C	3	0	76	83.0
27	56	2.7	0.04	164	160	7.8	7.5	7.2	237	240	0.23	1.17	4.4	3.7	800	0	3	0	76	0.68
28	51	2.5	0.04	172	160	7.8	7.5	7.2	244	240	0.19	1 1-	4.5	3.5	2200				76	0.64
29	48	2,7	0.04	168	160	7.8	7.5	7,2	244	236	0.23	1.12	4.5	3.4					75	0.66
30	4.9	2.7	0.04	160	156	7.9	7.5	7.2	240	240	0.23	1.19	4.5	3.3					76	0.68
31						Ĺ									Î					
AVE	82	2.8	0.04	150	148	7.8	7.4	7.3	211	210	0.23	1.15	4.3	3.6	2285	0	61 3	0	71	0.67
MIN MAX	48 208	2.4 3.3	0.04 0.05	120 172	124 160	7.6 7.9	7.2 7.5	7.2 7.4	156 244	164 240	0.16 0.31	1.09 1.21	3.6 4.7	3.3 3.8	200 11100	0	3 5	0	64 76	0.61 0.73

### GRANITE CITY, ILLINOIS

AUGUST. 2002

		Т	URBIDIT NTU	Y	ALKAL PF			PH		HARDI PF	NESS PM		PM	RESIDU F	AL CL2 PPM		PLANT	DIST. SY	STEM	WATER	₹
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100ml RAW		NO. SAMPLES	NO. >1	TEMP.	PHOS.
	1	19	2.5	0.05	160	148	6.1	7.4	7.2	204	204	0.24	1.10	4.7	3.8	400	0	3	0	84	0.66
	2	18	2.5	0.06	152	144	8.1	7.3	7.1	208	208	0.23	1.10	4.7	3.8	1400	Ů,	3	0	84	0.65
	3	16	3.0	0.06	148	144	8.1	7.3	7.1	204	204	0.22	1.09	4.7	3.8	0				95	0.52
	4	16	2.6	0.06	152	144	8.1	7.3	7.1	200	200	0.22	1.05	4.0	3.8	0				86	0.63
	5	16	2.7	0,05	156	140	¥.0	7.3	7.0	196	196	0.20	1.08	4.9	3.7	700	0	4	0	8.8	0.62
	6	22	2.3	0.06	148	124	8.0	7.3	7.0	184	1.84	0.29	1.06	4.5	3.4	200	0	3	D.	82	0.62
	7	24	2.2	0.06	148	120	9.1	7.3	7.0	200	192	0.21	1.15	4.3	3.7	300	0	3	0	94	0.58
	8	20	2.1	0.06	168	148	8.0	7.4	7,0	220	220	0.23	1.11	4.4	3.9	100	Q	3	D	82	0.67
	9	18	2.3	0.06	156	156	8.1	7.6	7,1	200	184	0.28	1.14	4.5	3.9	600	0	3	0	9.1	0.66
	10	17	2.5	0.07	148	136	8.2	7.4	7.1	189	188	0.24	1.12	4.3	3.9	0				80	0.61
	11	21	2.1	0.06	152	140	8.1	7.5	7.1	192	192	0.22	1,13	4.3	3 . 8	0			· · · · · · · · · · · · · · · · · · ·	80	0.64
	12	23	2.5	0.05	124	120	6.2	7.4	7.0	184	184	0.23	1.10	4.4	3.9	600	G	4	0	80	0.54
	13	22	2.5	0.05	140	124	é,3	7.4	7.0	180	184	0.23	1.09	4.7	3.9	400	0	3	Ø	80	0.61
	14	20	2.7	0.05	128	120	8.2	7.4	7.0	176	175	0.19	1,07	4_8	3.9	300	0	3	Ď	80	0.61
	15	20	3.2	0.05	136	124	9.1	7.3	7.0	180	180	0.21	1.09	4.6	4.0	400	0	3	٥	90	0.61
	16	26	2.2	0.05	136	132	8.2	7.4	7.0	180	180	0.23	1.13	4.3	3.9	300	0	3	. 0	80	0.61
ļ <u>.</u>	17	20	2.4	0.06	140	132	8.2	7.3	7.0	188	188	0.21	1.13	4,6	3.7	<u> </u>		<b> </b>		80	0.58
	18	18	2.7	0.06	140	120	8.2	7.2	7,0	184	180	0.25	1,15	3.5	3.6	0		<b>.</b>		91	0.63
	19	24	2.9	0.05	144	120	8.0	7.2	7.0	184	192	0.27	1.09	2,2	3,7	1000	0	4	ົນ	ଞର	0.61
	20	26	3.0	0.05	148	120	8.1	7.1	7.0	184	184	0.28	1.14	3.0	3.7	3100	ū	3	Ð	80	0.63
	21	24	2.8	0.05	152	140	8.0	7.1	7.2	200	196	0.26	1.14	2.8	3.5	200	0	3	0	80	0.62
	22	24	3.0	0.05	144	132	7.9	7.1	7.2	184	188	0.19	1.15	2.9	3.6	1100	0	3	Ō	80	0.65
ļ	23	22	3.0	0.05	140	132	7.5	7.1	7,2	180	180.	0.20	1.16	2.8	3.5	1700	0	3	0	80	0.65
	24	31	2.8	0.05	140	136	7.8	7.2	7.2	180	180	0.23	1.14	2.9	3.4	0				80	0.65
	25	67	3.1	0.05	140	132	7.8	7.1	7.1	180	180	0.20	1.10	2,7	3.5	0				80	0.63
·	26	71	3.3	0.05	152	140	7.6	7.1	7.1	192	192	0.24	1.15	3.0	3.4	1800	0	4	٥	80	0.63
	27	69	3.6	0.04	152	144	7.6	7.0	7.1	192	192	(),25	1.15	3.1	3.4	1900	0	3	0	80	0.62
ļ	28	69	4.0	0.04	152	144	7.6	7.1	7.1	192	192	0.20	1.11	3.3	3.5	2500	0	3	0	80	0.64
<u> </u>	29	60.	3.8	0.04	152	148	7.6	7.1	7.1	192	192	0.23	1.14	3.5	3.4	2400	0 .	3	O.	-80	0.64
ļ	30	43	3.6	0.04	140	132	7.6	7.0	7.1	176	1.76	0.22	1.17	3.3	3.4	600	O .	3	0	78	0.66
TOTAL	31	36	3.6	0.04	148	144	7.8	7.1	7.1	192	184	0.29	1.21	3,4	3.6	0	<u> </u>	L		78	0.59
TOTAL	A)./-	20	2.0	0.05	4.40	405		7.0	<b>-</b> 4	400	400	0.00	4.46				_	70	_		
AVE	AVE	30	2.8	0.05	146	135	8.0	7.3	7.1	190	189	0.23	1.12	3.9	3.7	710	0	3	0	81	0.63
MAX	MIN	16	2.1	0.04	124	120	7.6	7.0	7.0	176	176	0.19	1.05	3.8	3.4	0	0	3	0	78	0.58
MIN	MAX	71	4.0	0.07	168	156	8.3	7.6	7.2	220	220	0.29	1.21	4.9	4.0	310 <del>0</del>	0	4	0	88	0.69

#### PURIFICATION PLANT | 3T ILLINOIS-AMERICAN WATER COMPANY ARURBAN DISTRICT

GRANITE CITY PLANT

**FACILITY NO. 163-5040** 

SEPT., 2002

#### GRANITE CITY, ILLINOIS

		T	URBIDIT) NTU	′	ALKALI PP			PΗ		HARD Pl	NESS PM		PM	RESIDU. P	AL CL2 'PM		PLANT	DIST. SY	STEM	WATER	<b>}</b>
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100m RAW		NO.	NO. >1	TEMP.	PHOS.
	1	34	3.2	0.04	148	144	7.7	7.1	7.2	192	192	0.31	1.15	4.4	3.B					78	0.67
	2	3.3	3.4	0.04	144	136	7.7	7.1	7.2	192_	180	0.31	1.11	4.5	3.7					78	0.54
	3	3.2	4.0	0.04	152	156	7.7	7.1	7.2	180	172	0.22	1.09	4.6	3.9	900	þ	3	۵	77	0.66
	4	28	3.9	0.04	152	152	7.9	7.2	7.2	192	180	0.24	1.11	4.8	3.9	1400	¢	3	Ò	7.8	9.68
	5	25	3.8	0.04	136	136	7.9	7.3	7.2	192	180	0.21	1.08	4.6	3.8	1100	0	3	0	79	0.70
	6	23	4.0	0.04	144	144	7.9	7.3	7.2	200	188	0.25	1.07	4,8	4.0	900	Ð	3	Q.	80	0.71
	7	21	3.4	0.04	148	140	e.o	7.3	7.3	196	196	0.19	1.08	4.6	3.9	1	<u> </u>	I		79	0.68
	8	21	3.3	0.04	144	144	8.0	7.4	7.3	1.92	188	0.16	1.08	4.6	3.8					79	0.71
	9	20	3.3	0.05	140	140	9.0	7.4	7.3	184	3.80	0.25	1.07	4.8	3.B	300	0	4	Ò	79	9.66
	10	17	3.5	0.05	140	140	8.0	7.4	7.3	188	188	0.21	1.12	4.9	3.8	200	0	3	0	7.9	0.69
	11	1.8	3.0	0.05	144	140	8.1	7.3	7.3	180	1.60	0.22	1.07	4.6	3.9	1700	0	3	g .	80	0.68
	12	19	2.9	0.05	148	140	8.1	7.3	7.3	1.80	180	0.18	1.03	4.9	3.9	300	Ω	3	0	79	0.70
	13	20	3.1	0.05	148	140	8.1	2.3	7.3	180	180	0.21	1.04	4.5	3.6	400	Ü	3	<u>0</u>	75	0.70
	14	20	3.1	0.05	132	132	8.0	7.4	7.3	180	176	0.16	1.12	4.3	3.6		ļ			74	0.68
	15	21	2.6	0.05	140	132	8.0	7.4	7.1	180	176	0.19	1.11	4.5	3.7			(		77	0.68
	16	20	2.9	0.05	144	136	8.0	7.3	7.3	180	180	0.20	0.94	4.7	3,9	1300	0	4	0	78	0.67
	17	20	2.7	0.05	140	146	0.8	7.3	7.3	180	180	0.21	1.04	4.5	3.8	200	0	3	0	78	0.64
	18	21	2,6	0.05	144	144	7.9	7.4	7.3	180	150	0.19	1.05	4.5	3.5	4100	0	3	0	78	0.55
	19	18	2.6	0.05	140	140	7.9	7.4	7.3	188	194	0.21	1.10	4.6	3.7	500				7.9	0.65
	20	3.7	3.1	0.05	114	140	7.B	7.2	7.3	184	184	0.19	1.15	4.7	3.8	1700	0	3	O	76	0.68
	21	29	2.9	0.05	152	144	7.8	7.3	7,2	180	180	0.20	1.08	4.7	3.8					73	0.68
	22	20	2.7	0.05	152	144	7.8	7.3	7.2	180	180	0.22	1.05	4.7	3.9				andre and the	73	0.64
	23	19	2.8	0.05	156	152	7.9	7.3	7.2	180	180	0.22	1.10	4.5	3.9	500	0	4	Ø	75	0.65
	24	19	2.7	0.05	152	148	7.9	7.3	7.2	180	180	0.20	1.05	4.5	3.9	400	ņ	3	0	75	0.65
	25	17	2.5	0.05	156	152	7,9	7.3	7.2	188	188	0.18	1.10	4.5	3.9	200	0	3	Ó.	75	0.66
	26	19	2.4	0.05	120	136	7.9	7.3	7,2	172_	172	0.17	1.09	4.6	3.9	300	0	3	Q.	75	0.69
	27	20	3.1	0.05	120	136	7.9	7.3	7.3	172	172	0.20	1,09	4.9	3.7					75	0,66
	28	18	3.2	0.05	128	136	7.9	7.3	7.2	176	176	0.23	1.09	5.0	3.9	L				71	0.65
	29	18	3.5	0.05	132	140	9.0	7.3	7.3	180	186	0.20	1.10	4.4	3.8					71.	0.67
	30	3.6	3.6	0.05	144	140	8.0	7.4	7.3	184	180	0.15	1.06	4.4	3.7					72	0.67
<u> </u>	31					<u> </u>		<u></u> _		<u> </u>	<u> </u>			<u> </u>							
TOTAL																-		54			
AVE	AVE	23	3.1	0.05	143	141	7.9	7.3	7.3	184	181.07	0.21	1.08	4.6	3.8	911	0	3	0	77	0.67
MAX	MIN	17	2.4	0.04	120	132	7.7	7.1	7.2	172	172.00	0.15	0.94	4.3	3.5	200	0	3	0	71	0.64
MIN	MAX	38	4.0	0.05	156	156	8.1	7.4	7.3	200	196.00	0.31	1.15	5.0	4.0	4100	0	4	0	80	0.71

₹Т GRANITE CITY PLANT

FACILITY NO. 163-5040

### GRANITE CITY, ILLINOIS

OCTOBER,2002

		Т	URBIDIT NTU	Y	ALKAL PP			PΗ		HARDI PE			PM	RESIDU F	AL CL2 PM		PLANT	DIST. SY	STEM	WATER	₹
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100ml RAW		NO. SAMPLES	NO. >1	TEMP. F	PHOS.
	1	35	3.5	0.06	140	140	7.9	7.4	7.2	180	180	0.15	1.08	4.4	3.8	1700	0	3	0	73	0.66
· · · · · · · · · · · · · · · · · · ·	2	29	2.1	0.05	140	136	8.0	7.4	7.3	176	176	0.10	1.10	4,4	3.9	1900	0	3	Q.	73	0.71
	3	32	2.6	0.06	144	132	8.0	7.4	7.3	180	168	0.18	1.05	4.3	3.9	2400	0	3	O.	73	0.58
***************************************	4	31	2.7	0.06	140	136	7.9	7.4	7_3	196	180	0.22	1.07	4.4	3.8	1200	Q	3	0	74	0.70
	5	23	3.5	0.05	144	144	7.5	7.4	7.3	180	180	0.17	1.13	4.4	3.9					70	0.68
	6	20	3.2	0.05	144	144	8.0	7.4	7.3	184	184	n.15	1.07	4.4	3.9		<u> </u>			72	0.69
	7	20	3.5	0.05	148	148	7.9	7.4	7.2	1.80	180	0.22	1,12	4.5	4.1	1800	0	4	0	72	0.64
	8	20	3.5	0.05	148	148	8.0	7.3	7.3	184	194	0.14	1.09	4.6	4.0	900	Ü	3	Û	67	0.70
	9	22	3.4	0.05	148	148	7.9	7.3	7.3	184	184	0.15	1.05	4.4	4.0	600	Q.	3	ŋ	70	0.68
	10	1.9	3.4	0.05	140	140	8.0	7.5	7.3	184	184	0.22	1.07	4.4	4.0	1200	0	3	0	70	0.67
	11	1.9	2.9	0.05	160	152	8.1	7.4	7.4	189	188	0.22	1.02	4.3	3.9	1300	0	3	Đ	69	0.66
	12	18	3.2	0.05	144	144	8.0	7.4	7.4	1.84	184	0.15	1.04	4.4	4.0					70	0.68
	13	22	3.4	0.05	148	144	8.0	7.4	7.3	184	184	0.20	1.05	4.4	4.1		J			70	0.58
	14	26	3.5	0.05	148	144	8.0	7.4	7.4	184	184	0.21	1,05	4.4	4.0	700	Ω	4	٥	68	0.67
	15	27	4.3	0.05	160	156	8.0	7.4	7.4	204	200	0.18	1.06	4.4	4.0	400	0	3	٥.	68	0.66
	16	31	4.9	0.05	164	156	8.0	7.5	7.4	200	200	0.20	1.01	4.5	4.0	500	0	3	0	67	0.67
	17	34	4,8	0.05	156	172	8.1	7.3	7.4	180	180	0.21	1.11	4.3	4.0	1000	0	3	Ū	68	0.74
	18	32	3.9	0.05	160	152	8.0	7.5	7.4	192	184	0.19	1.12	4.4	4.1	600	0	3	0	68	0.70
	19	3.6	4 . B	0.05	160	140	8.0	7.3	7.3	180	180	0.20	1.09	4.3	4.1					57	0.69
	20	40	4,4	0.05	160	144	7.9	7.3	7.3	1,80	180	0.22	1,05	4.2	4.1					65	0.71
	21	37	5.2	0.05	148	140	7.9	7.3	7.3	188	188	0.33	1.09	4.3	3.9	1500	0	4	o o	65	0.71
	22	35	5 - 5	0.05	120	120	7.9	7.2	7.2	1.88	188	0.21	1.09	4.6	3.9	900	0	3	0	65	0.67
	23	36	5.8	0.06	128	128	7.9	7.4	7.2	200	176	0.23	1.04	4.5	4,0	1600	Đ	3	0	60	0.68
	24	32	6.6	0.06	128	120	8.0	7.3	7.2	168	1.64	0.21	1.01	4.5	4,1	1300	0	3	e	60	0.68
	25	31	5.0	0.06	124	112	8.0	7.4	7.2	160	160	0.24	1.04	4.4	4.1	400	0	3	Q.	58	0.67
	26	29	4.5	0.97	1,24	120	8.0	7.4	7.2	172	150	0.22	1.05	4.5	3.9			i		58	0.66
	27	25	4.0	80.0	120	120	7.9	7.4	7.3	160	160	0.21	2.06	4.6	3.9					56	0.65
	28	21	3.9	0.07	120	120	7.9	7.4	7.2	164	160	0.18	1.04	4.5	3.9	2500	á	4	0	58	0.65
ļ	29	22	3.7	0.06	132	124	7.9	7.3	7,3	184	180	0.19	1.13	4.5	3.7	1900	O	3	Q	54	0.66
	30	2.1	4.8	0.05	132	120	7.9	7.2	7.3	172	172	0.20	1.09	1.8	3.6	700	0	3	Ü	52	0.68
<u> </u>	31	19	8.8	0.06	120	128	7.9	7.2	7.2	180	180	0.20	1.13	2.5	3.7	1300	Ω	3	0	60	0.68
TOTAL																		73			
AVE	AVE	27	4.2	0.05	142	138	8.0	7.4	7.3	182	179	0.20	1.07	4.3	3.9	1230	0	3	0	66	0.68
MAX	MIN	18	2.6	0.05	120	112	7.9	7.2	7.2	160	160	0.10	1.01	1.8	3.6	400	0	3	0	52	0.64
MIN	MAX	40	8.8	0.08	164	172	8.1	7.5	7.4	204	200	0.33	1.13	4.6	4.1	2500	0	4	0	74	0.74

GRANITE CITY, ILLINOIS

NOV.,2002

		1 1	URBIDIT NTU	f ,	ALKAL PP			PH		HARD P	NESS PM		PM	RESIDU F	AL CL2 PPM		PLANT	DIST. SY	STEM	WATER	
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100ml RAW		NO. SAMPLES	NO. >1	TEMP. F	PHOS.
	1	17	6.9	0.06	136	136	7.9	7.2	7.3	180	180	0.17	1.11	2.3	3.6	700	0	3	Ü	57	0.65
	2	15	5.4	0.04	144	152	9,0	7.3	7.3	184	188	0.19	1.03	1.8	3.7					56	0.69
	3	13	4.9	0.04	1,48	132	6,0	7.2	7.3	180	190	0.22	1.07	2.2	3.7					4.9	0.69
	4	13	4.9	0.05	148	144	8.0	7.3	7.3	1:84	180	0.19	1.07	2.3	3.7	1200	0	4	0	54	0.70
	5	13	6.5	0.06	1.48	144	8.0	7.4	7.3	108	188	0.27	1.11	2.5	3.8	1300	٥	4	٥	54	0.66
	6	1.3	7.2	0.05	148	140	8.0	7.3	7.3	184	180	0.29	1.11	2.8	3 - 8					53	0.56
	7	13	5.0	0.05	160	140	9.0	7.4	7.3	184	188	0.22	1.03	4.3	4.2	1000	O	4	¢.	53	0.69
	8	13	4.4	0.05	152	148	8.0	7.4	7.4	1.88	198	0.17	1.05	4.6	3.9	400	Ö	3	Ú	56	0.71
	9	13	4.2	0.05	148	148	8.1	7.4	7.4	204	1,96	0.20	0.99	4.3	3.7					54	0.70
	10	14	4.3	0.06	1,60	152	8.1	7.5	7.4	188	180	0.19	1.10	4.6	3.8	<u> </u>				54	0.67
	11	1.3	3,8	0.05	164	152	8.2	7.4	7.4	184	1.60	0.22	1.08	4.3	3.7					55	0.66
	12	13	3.9	0.05	140	148	8.2	7.4	7.4	204	204	0.24	1.07	4.3	3,7	900	0	4	0	56	0.67
	13	13	4.5	0.05	156	156	8.2	7.4	7,4	200	200	0.21	1.08	4.5	3.7			<u> </u>		56	0.72
	14	12	4.3	0.05	164	160	8.2	7.5	7,5	200	192	0.21	1.11	4.5	3.9	1200	O	4	Ò	56	0.72
	15	12	5.0	0.05	180	160	8.0	7.5	7.4	180	180	0.21	1.12	4,2	3.9	1100	0	3	Ö	5.5	0.72
	16	13	5.1	.0.05	164	152	8.1	7.5	7.4	220	200	0,22	1.10	4.7	3.9					52	0.73
	17	13	4.8	0.06	161	144	₿.1	7.5	7.4	204	200	0.20	1.07	5.1	3,9					50	0.70
	18	13	4.2	0.06	160	144	8.1	7.5	7.4	204	200	0.21	1,06	5.4	3.9	1900	0	4	0	50	0,69
	19	13	4.8	0,06	172	148	8.1	7.5	7.4	208	204	0.20	1.07	5.4	3.8	600	a	4	0	50	0.73
	20	12	4.1	0.05	152	144	8.1	7.5	7.4	208	204	0.23	1.11	5.3	3.8					58	0.69
	21	13	5.5	0.06	152	140	9.1	7.5	7.4	204	204	0.21	1.08	5.3	4.2	700	0	4	G	50	0.71
	22	12	5.7	0.05	156	140	8.1	7.5	7.4	200	204	0.22	1.03	5.1	4.1	1200	0	3	Ü.	54	0.58
	23	12	5.7	0.07	152	140	8.1	7.5	7.5	204	204	0.17	1.07	5.2	4.0					54	0.70
	24	11	4.6	0.07	156	144	8.1	7.5	7.4	250	200	0.19	1.09	5.3	4.2			1		54	0.72
	25	11	4.8	0.08	136	144	8.0	7.5	7.4	200	200	0.20	1.09	5.3	4.1	1300	Ů.	4	Ö	52	0.70
	26	11	4_8	0.08	152	144	8.1	7.6	7.5	204	204	0.19	1,09	5.0	3.7	1200	a	.1	Ç.	54	0.65
	27	11	5.8	0.09	160	156	8.1	7.6	7.5	204	200	0.21	1.09	5.3	3.7					54	0.68
	28	9	4.8	0.06	154	156	8.1	7.6	7.5	200	200	0.20	1.09	5.3	3.4					54	0.75
	29	10	5.3	0.06	164	160	8.1	7.6	7.5	200	200	0.19	1.09	4.8	3.5					54	0.70
	30	11	6.8	0.05	164	150	8.1	7.6	7.5	200	200	0.23	1.09	4.9	3.6					54	0.72
	31					L															
TOTAL																		52			
AVE	AVE	13	5.1	0.06	155	147	8.1	7.5	7	196	194.27	0.21	1.1	4.4	4	1050	0	4	0	53	1
MAX	MIN	9	3.8	0.04	136	132	7.9	7.2	7	180	180.00	0.17	1.0	1.8	3	400	0	3	0	49	1
MIN	MAX	17	7.2	0.09	180	160	8.2	7.6	8	220	204.00	0.29	1.1	5.4	4	1900	0	4	0	57	1

# PURIFICATION PLANT F RT RILLINOIS-AMERICAN WATER COMPANY FRANCE GRANITE CITY PLANT

FACILITY NO. 163-5040

GRANITE CITY, ILLINOIS

DEC., 2002

		T	URBIDIT NTU	Ý	ALKAL PF			PΗ		HARDI PF	NESS PM		RIDE PM	RESIDU P	PM		PLANT	DIŞT, SY	STEM	WATER	
	DATE	RAW	SET	EFF	MO RAW	MO EFF	RAW	SET	EFF	RAW	EFF	RAW	EFF	TL-CL2 SET	TL-CL2 EFF	Col/100ml RAW		NO. SAMPLES	NO. >1	TEMP.	PHOS.
		10	4.9	0.05	152	152	8.1	7.6	7.5	200	200	0.20	1.09	5.1	3.5	1000		O/ ((7)) LEG		54	0.66
<u> </u>	1 2	4	5.5	0.07	136	160	6.4	7.6	7.5	220	220	0.20	1.09	5.1	3.8	2700	0	4	0	49	0.73
	3	11	5.5	0.05	144	156	8.3	7.6	7.5	220	220	0.21	1.04	5.4	4.0	1500	0	4	e e	49	0.72
	4	11	5.5	0.05	188	166	8.3	7.7	7.6	200	200	0.24	1.09	5.2	3,9					4.9	0.66
	5	10	5.3	0.06	184	196	6.4	7.6	7.6	224	224	0.23	1.09	5.4	4.0	1100	0	4	ā	40	0.71
	6	9	5.1	0.05	180	158	8.4	7.6	7.5	204	204	0.24	1.07	5.2	4.1	600	Ð	3 .	Ç	4.0	0.38
	7	10	5.S	0.06	188	180	8.2	7,7	7.6	200	200	0.24	1.09	5.2	4.3					39	0.70
	8	8	5.1	0.07	180	180	8.4	7.6	7.4	208	208	0.21	1.05	5.1	4.1					3 4	0.65
	9	8	5.2	0.05	148	148	8.6	7.6	7.5	205	208	0.20	1.06	5.1	4.2	1100	Ü	4	¢	39	0.65
	10	10	5.5	0.05	192	176	8.6	7.7	7.5	236	220	0.23	1.03	5.2	4.3	700	٥	4	0	39	0.68
	11	11	5.6	0,05	160	150	8.6	7.7	7.5	224	228	0.20	1.09	5.2	4.1					39	0.68
	12	11	5.9	0.06	176	164	8.6	7.7	7.5	212	212	0.19	1.07	4.8	3.8	600	0	4	.0	3.9	0.70
	13	2.1	4.9	0.04	180	164.	8.6	7.6	7.5	236	212	0.20	1.13	4.2	3.7	300	0	3	G	39	0.68
	14	11	5.0	0.04	l 72	160	7.8	7.5	7.4	216	216	0.20	1,05	3.7	4.1					39	0.62
	15	11	4.9	0.04	180	160	8.7	7.7	7.5	232	212	0.24	1.04	4.0	4.1					3.8	0.68
	16	10	4.2	0.04	160	152	8.6	7.7	7.5	216	216	0.20	1.12	3.9	3.7	1000	0	4	Ď	39	0.64
	17	10	4.3	0.04	160	152	8.8	7.8	7.6	224	320	9.15	1.09	4.0	3.8	400	0	2	-Ü	39	0.65
	18	14	3.9	0.06	160	160	8.7	7.7	7.6	200	200	0.21	1.12	3.9	3.8					40	0.69
	19	28	6.8	0.06	1,60	152	8.7	7.9	7.5	220	212	0.17	1.15	3.7	3.7	2400	ລ	-1	0	42	0.72
	20	25	5.5	0.04	152	148	5,7	7.6	7.5	220	212	0.15	1.15	3.5	3'.2	2200	Ċ.	2	0	42	0.70
	21	14	4.9	0.04	156	148	8.6	7,9	7.8	220	216	0.21	1.09	3.7	3.5					42	0.70
	22	12	5.0	0.04	188	168	8.6	7.7	7.6	220	220	0.22	1.08	3.7	3 - 4					42	0.68
	23	15	5.2	0.04	200	180	8,7	7,7	7.6	248	244	0.24	1.09	3.5	3,3					41	0.58
	24	14	6.0	0.04	196	180	8.7	7.7	7.5	240	240	0.20	1.09	3.4	3.3					41	0.74
	25	12	6.6	0.04	196	188	8,7	7.8	7.8	244	244	0.21	1.09	3.4	3.2					39	0.73
	26	ii	6.3	0.04	204	188	8.7	7.9	7.6	244	244	0.21	1.09	4.1	3.7	1200	a	4	0	38	0.75
	27	10	5.0	0.04	204	184	8.7	7.9	7.6	244	244	0.22	1.09	4.2	3 - 7	2100	0	3	ט	38	0.70
	28	11	4.1	0,04	200	188	8.5	7.9	7.6	220	220	0.22	1.09	4:,0	3.7					42	0.70
	29	10	3.7	0.05	192	172	В.7	7,8	7.6	232	232	0.19	1.13	4,1	3.9					42	0.74
	30	11	3.5	0.05	200	176	н. я	7.8	7.6	228	220	0.25	1.15	4.0	4.0	1700	0	4	٥	42	0.74
	31	12	4.6	0.06	192	176	9.7	7.8	7.5	224	224	0.22	1.14	3.6	3.8					42	0.73
TOTAL																		53			
AVE	AVE	12	5.1	0.05	177	168	8.6	7.7	7.6	222	219	0.21	1.09	4.4	3.8	1307	0	4	0	41	0.68
MAX	MIN	8	3.5	0.04	136	148	7.8	7.5	7.4	200	200	0.15	1.03	3.4	3.2	300	0	2	0	38	0.38
MIN	MAX	28	6.8	0.07	204	196	8.8	7.9	7.8	248	244	0.25	1.15	5.4	4.3	2700	0	4	0	54	0.75

### WOOD RIVER, ILLINIOS CSO LONG TERM CONTROL PLAN

## Appendix 1 Data Analysis of AWC's Alton and Choteau Island Raw Water Intakes Fecal Coliform Data

#### Alton Raw Water Data

				2002						2003		
-	May	June	July	August	September	October	May	June	July	August	September	October
	100	200	200	100	100	200	300	200	100	100	100	100
	400	400	200	100	100	200	300	400	. 200	100	100	200
	800	400	300	200	100	200	500	600	200	200	100	200
	800	500	300	200	100	300	700	600	200	200	100	400
	1000	500	300	200	100	300	700	700	300	200	200	400
	1300	500	400	200	100	300	1100	800	300	300	200	500
	1400	600	400	200	100	400	1100	800	400	400	300	500
	1500	600	500	300	200	500	1400	900	500	400	400	500
	1700	700	600	300	200	500	1700	900	500	500	500	500
	1900	800	600	300	200	500	1900	1100	600	500	500	500
	2100	900	600	400	200	600	2500	1100	800	600	500	500
	2100	900	800	400	300	600	2700	1100	800	600	600	500
	2300	1000	900	500	400	700	3100	1200	800	600	900	700
	2300	1100	900	500	500	800	4700	1200	1000	700	1200	700
	2700	1200	900	600	900	900	4800	1200	1100	700	1300	700
	2800	1600	900	900	900	900	5100	1500	1100	900	1800	800
	2800	1800	1000	900	900	900	6300	1600	1200	900	1800	800
	3100	2900	1100	1000	1000	1200	8400	1900	2000	900	2100	900
	6000	6500	1100	1200	3100	1200		2400	2400	900	2200	1100
	7200	9800	1400	1200		2300		3000	3600	1200	2500	1600
				2200		2700		3300		1400	2600	1900
				2900		3900						4800
Geometric Mean	1617	962	577	441	275	640	1708	1047	613	467	559	605
% Above 400	90.0	85.0	65.0	45.5	31.6	68.2	88.9	90.5	65.0	61.9	61.9	77.3

_			2	2004	_		_				2005		
-	May	June	July	August	September	October	_	May	June	July	August	September	October
	100	600	100	99	100	200		99	99	99	99	99	99
	200	600	200	100	100	200		99	100	99	99	99	99
	200	700	200	200	100	300		99	100	99	99	99	99
	300	800	300	200	200	300		99	200	99	99	99	99
	300	800	400	300	200	400		100	200	99	99	99	100
	300	800	600	400	200	500		100	300	99	99	99	100
	300	800	600	400	300	600		100	300	99	99	99	200
	400	900	600	400	300	700		100	300	100	99	99	300
	700	900	800	500	400	700		100	300	100	99	99	300
	700	900	800	600	400	900		100	300	200	99	100	300
	900	900	800	600	500	1000		100	400	200	99	100	300
	1000	900	900	600	500	1400		100	400	200	99	100	300
	1200	1000	900	700	700	1400		200	400	200	100	100	300
4	1500	1100	900	800	700	1400		200	600	200	200	400	400
	1900	1200	1000	1000	800	1500		200	600	200	200	1500	400
	2900	1700	1200	1100	800	1500		200	700	300	200	2900	500
	4000	2000	1400	1100	900	2300		400	900	300	400		700
	4100	2800	1400	1500	900	2800		400	1200	600	400		800
	8800	2800	1700	1900	1300	7400		400	1500	2100	400		2300
		4100	11900	2300				600	1500		500		
								600			700		
Geometric Mean	777	1115	730	535	378	859		165	379	180	159	159	269
% Above 400	57.9	100.0	75.0	60.0	47,4	73.7		9.5	35.0	10,5	9.5	12.5	21.1

		Alton Ra	w Water Intak	e Fecal Colifor	m Data			
	Geome	tric Mean				% >	400	
	2002 2003	2004	2005		2002	2003	2004	2005
May	1617 1708	777	165	May	90.0	89	58	10
June	962 1047	1115	379	June	85.0	90.5	100	35
July	<i>577</i> 613	730	180	July	65.0	65.0	75	. 11
August	441 467	535	159	August	45.5	61.9	60	10
Sept.	275 559	378	159	Sept	31.6	61.9	47	. 13
Oct	640 605	859	269	Oct	66.2	77.3	74	21

#### WOOD RIVER, ILLINIOS CSO LONG TERM CONTROL PLAN

# Appendix I <u>Data Analysis of AWC's Alton and Choteau Island Raw Water Intakes Fecal Coliform Data</u>

#### Choteau Island Raw Water Data

				2002						2003		
	May	June	July	August	September	October	May	June	July	August	September	October
	500	200		100	200	400	400	400	200	100	100	100
	1400	500		200	200	400	400	600	200	100	100	100
	1500	600		200	200	500	800	600	300	100	400	100
	1600	800		300	300	600	900	600	300	100	400	200
	2000	800		300	300	600	1000	600	400	200	400	300
	2000	900		300	300	760	1000	800	400	300	400	300
	2100	1300		400	400	760	1200	900	500	300	500	300
	2300	1500		400	400	900	1400	900	500	400	500	300
	2600	1500		400	500	900	1400	900	700	400	700	400
	2800	1600		600	500	1000	1900	1100	700	400	800	400
	2800	1700		600	900	1200	2200	1100	700	500	1400	400
	3000	1700		600	900	1200	2200	1100	900	500	1600	400
	3100	1800		700	1100	1300	2800	1400	1000	600	1700	500
	3400	2000		1000	1300	1300	2900	1400	1100	700	1600	500
	5500	2200		1100	1400	1300	3300	2400	1200	800	2000	500
	5600	2600		1400	1700	1500	4100	3000	1500	900	2900	600
	5600	3700		1700	1700	1600	7200	3100	2100	900	3400	800
	5900	4500		1800	4100	1700	9400	3400	2200	900	4200	900
	6300	4700		1900		1800		10200	4800	900	4700	1000
	6500	11100		2400		1900				1100	6200	1100
				2500		1900				1900		1600
				3100		2400						2100
						2500						2400
Geometric Mean	2799	1571		675	617	1079	1738	1242	720	422	974	463
% Above 400	100	95		59.1	55.6	91.3	88.9	89.5	68.4	52.4	70.0	47.8

				2004						2005		
	May	June	July	August	September	October	May	June	July	August	September	October
	200	500	100	100	100	100	9:		99	99	99	99
	200	600	400	100	100	100	9:	99	99	99	99	99
	200	600	400	300	100	100	9:	99	99	99	99	100
	300	700	400	600	100	200	91	99	100	99	99	100
	400	700	500	600	100	300	10	100	100	99	99	100
	400	900	500	700	100	300	104	200	100	99	100	100
	900	900	500	800	300	300	10	200	100	100	200	200
	1100	900	600	800	300	500	108	300	200	100	300	200
	1200	900	600	900	300	600	20	400	200	200	300	200
	1300	900	600	900	300	700	20	400	200	200	300	200
	1400	1000	700	1000	400	700	20	400	300	200	300	300
·	1500	1100	700	1400	400	1300	30	400	300	200	400	400
	1600	1100	700	1500	400	2300	30		600	400	800	400
	3800	1200	800	2000	500	2400	30		800	400	900	400
	3800	1400	900	2000	500	2500	30		900	400	2100	500
	4000	1400	1100	2100	600	2500	30		900	500	2200	500
	4000	1500	1100	2800	1000	2800	40		1200	800	2400	600
	4500	1600	1500	2800	1100	3300	90		2000	900	2900	800
	7100	1900	2200	5300	1500	3600	90	1000	2500	900	3100	900
	12300	1900	10900	7800	1900	4100	210			1000	3800	900
		2400	12900	8100	2800			3700		2800		6500
				13000						3300		
Geometric Mean	1297	1055	837	1282	366	766	22		305	299	458	309
% Above 400	70.0	100,0	81.0	86.4	38.1	65.0	15.	42.9	36.8	31.6	40.0	33.3

			Choteau Islai	rd Raw Water In	take Fecal Col	iform Data			
		Geometr	ic Mean				%	> 400	
	2002	2003	2004	2005		2002	2003	2004	2005
May	2799	1738	1297	227	May	100	89	70	15
June	1571	1242	1055	371	June	95	89	100.0	43
July	-3.49.40.40	720	837	305	July		68	81	37
August	675	422	1282	299	August	59	52	86	32
Sept.	617	974	366	458	Sept.	56	70.0	38	40
Oct	1079	463	766	309	Oct	91	48	65.0	33

# APPENDIX J

USGS Daily Stream Flow Data at Grafton, Illinois

**Water Resources** 

National Water Information System: Web Interface

Data Category:		Geographic Area:		
Surface Water	*	United States	▼	GO
		{		

## **Streamflow Measurements for the Nation**

USGS 05587450 Mississippi River at Grafton, IL

Available data for this site	Surface-water:	Field measurements		GO

Jersey County, Illinois Hydrologic Unit Code 07110009 Latitude 38°58'04.7", Longitude 90°25'44.36" NAD83 Drainage area 171,300 square miles Gage datum 403.79 feet above sea level NGVD29

Output formats
HTML table of all measurement data
Tab-separated data
Graph of measurement data (GIF format)
Reselect output format

Number	Date	Made By	Width (ft)	Area (ft²)	Mean Vel (ft/s)	Inside Gage Height (ft)	Outside Gage Height (ft)	Stream flow (ft <sup>3</sup> /s)	Shift Adj (ft)	MS Rated	Number of Sections	GH Change (ft)	GH Change (hr)	MS Type	Control
218	2006- 06-22 10:25	H E/SSW	2110	74500	0.97	15.65	15.66	71800		P	· · · · · · · · · · · · · · · · · · ·	+0.03	0.8	ADCP	CLEAR
217	2006- 05-30 11:24	WEE/SSW	2100	70100	1.87	15.76		132000		G		-0.01	0.8	ADCP	CLEAR
216	2006- 04-19 11:23	HE/WE	2580	59500	3.45	16.35	16.35	205000		P		0.00	1.0	BOAT	CLEAR
215	2006-	LSB/WEE	2590	60900	0.93	16.10	16.10	56600	-0.48	P		0.00	0.7	ADCP	CLEAR

	03-06 15:42	•								
214	2005- 10-20 WEE/SSW 10:40	1800 38800	3.49	16.16	16.16 103000	0.00	P	+0.01	0.3 ADCP	CLEAR
213	2005- 09-16 H E/WEE 10:34	2030 62000	0.62	15.92	15.90 38600	-0.82	P	0.00	1.5 ADCP	CLEAR
212	2005- 08-26 SSW/WEE 09:32	2020 65000	0.66	15.82	15.82 42600	-0.82	P	0.00	0.8 ADCP	CLEAR
211	2005- 08-12 WEE/SSW 10:16	2020 60800	0.57	15.96	15.96 34500	-0.82	P		0.0 ADCP	CLEAR
210	2005- 07-25 H E/WEE 10:35	2010 59600	1.04	16.06	16.06 61700	-0.51	P	0.00	0.9 ADCP	CLEAR
209	2005- 06-23 WEE/SSW 09:50	2030 62800	1.94	15.62	15.60 121000	0.00	P	0.00	0.7 ADCP	CLEAR
208	2005- 05-27 WEE/SSW 09:43	2010 62800	2.24	15.82	15.82 141000	0.00	<b>P</b>	0.00	0.7 ADCP	CLEAR
207	2005- 04-26 WEE/HOE 11:32	2040 57600	3.19	15.98	16.00 183000	0.00	<b>P</b> :	-0.01	0.9 ADCP	CLEAR
206	2005- 03-29 H E/SSW 10:10	2020 63800	1.35	16.01	16.01 85900	-1.05	P	+0.03	0.7 ADCP	CLEAR
205	2005- 02-17 H E/SSW		3.57		:		6 1	0.00	0.9 ADCP	CLEAR
204	2005- 01-27 H E/WEE 10:47	1990 59100			15.97 140000			-0.02	0.9 ADCP	CLEAR

203	2004- 12-09 10:31	WEE	2020 58000	2.87	16.14	16.14	166000	0.00	P	0.00	1.2 BOAT	CLEAR
202	2004- 10-15 13:00	H E/WEE	2000 58900	1.11	15.98	16.00	65300	0.00	P	0.00	0.8 ADCP	CLEAR
201	2004- 09-15 10:20	ESS/HH	2600 59800	1.01	15.89	15.90	60600	-0.29	F	0.00	0.9 ADCP SUBI	MERGED
200	2004- 09-01 09:55	HOE/SES	2030 67500	1.82	15.63	15.65	123000	0.00	<b>P</b> ·	-0.04	1.0 ADCP	CLEAR
199	2004- 07-28 10:55	H E/SSW	2020 60200	1.61	15.49	15.50	96800	0.00	P	0.00	1.0 ADCP	CLEAR
198	2004- 06-22 3 09:54	WEE/SSW	2020 58300	4.79	20.02	20.03	279000	0.00	<b>P</b> ·	-0.03	0.8 ADCP	CLEAR
197	2004- 06-03 11:24	H E/WEE	2030 64400	4.50	20.50	20.50	290000	0.00	P	+0.05	0.8 ADCP	CLEAR
196	2004- 04-19 11:11	H E/SSW	2020 59500	1.66	15.64	15.65	98500	0.00	<b>P</b> :	-0.01	0.9 ADCP	CLEAR
195	2004- 03-12 \ 10:25	WEE/SSW	2040 56600	2.84	15.24	15.20	159000	0.00	<b>P</b> :	0.00	1.4 ADCP	CLEAR
194	2004- 02-25 1 10:40	WEE/SSW	1990 59200	1.39	15.60	15.60	82100	0.00	P	+0.06	0.7 ADCP	CLEAR
193	2004- 01-08 V 10:15	WEE/SSW	2002 65100	0.70	15.96	15.98	45300	-0.57	P	+0.03	1.2 ADCP	CLEAR
192	2003- 11-13	WEE/SSW	2010 62600	0.84	15.59	15.60	52500	-0.07	$\mathbf{F}^{+}$	0.00	0.8 ADCP	CLEAR
			· ·						and the second second			

		10:31											
	191	2003- 09-08 H 10:35	łoe/ssw	2010 61400	0.52	15.68	15.70	31400	-0.63	P	0.00	1.4 ADCP	CLEAR
	190	2003-	H E/SSW	2020 57300	2.93	15.45	15.45	167000	-0.61	P	0.00	1.1 ADCP	CLEAR
	189	2003- 06-09 10:35	H E/SSW	2006 59500	2.02	14.97	15.00	120000	0.00	P	0.00	1.3 ADCP	CLEAR
	188	2003- 05-09 10:35	H E/SW	2567 61236	3.57	16.93	16.95	219000	-0.96	P	0.00	0.8 ADCP	CLEAR
	187	2003- 03-13 H 10:00	HOE/SSW	2002 60800	0.73	15.58	15.60	44500	+0.08	P	+0.03	0.8 ADCP	CLEAR
	186	2002- 12-23 10:40	H E/SSW	1987 61200	0.96	15.28	15.28	58700	+0.08	P	+0.02	0.9 ADCP	CLEAR
	185	2002- 11-12 I 11:05	HEE/SSW	2007 57200	1.20	15.41	15.41	68600	+0.08	P	-0.03	1.0 ADCP	SUBMERGED
:	184	2002- 09-27 09:15	H E/SSW	2009 64400	0.80	15.23	15.37	51500	0.00	<b>P</b> .	0.00	1.3 ADCP	CLEAR
:	183	2002- 08-02 11:05	H E/SSW	1991 58800	1.57	15.60	15.60	92500	0.00	P	0.00	1.0 BOAT	CLEAR
	182	2002- 06-13 09:18	LDB/CJR	2024 58800				290000			+0.07		
	181	2002- 05-22 18:24	ESS/LDB	2040 64100	4.93		22.74	314000	0.00	P		0.0 BOAT	

180	2002- 05-09 H 11:15	E/SSW	2025 7:	5900	4.32	23.28	23.34 3	328000	0.00	P	+0.03	1.0 BOAT	CLEAR
179	2002- 04-01 HO 11:11	E/SSW	1992 5	8900	1.49	15.66	15.70	87600	0.00	F	-0.03	0.6 BOAT	CLEAR
178	2002- 01-29 H 10:05	E/SSW	1987 6	1800	1.13	15.49	15.50	70000	0.00	P	-0.02	0.8 BOAT	CLEAR
177	2001- 12-13 WE 10:12	E/SSW	2005 62	2500	1.65	15.52	15.50 1	103000	0.00	F	0.00	0.8 BOAT	CLEAR
176	2001- 11-15 H I 11:05	E/WEE	2006 58	8900	1.20	15.27	15.28	70800	0.00	F	-0.02	0.9 BOAT	CLEAR
175	2001- 10-24 H 10:10	E/SSW	2010 62	2300	1.77	15.51	15.50 1	10000	0.00	F	0.00	1.1 BOAT	CLEAR
174	2001- 09-27 WE 10:25	E/SSW	2004 6	1800	1.08	15.44	15.48	66600	0.00	F	0.00	1.2 BOAT	CLEAR
173	2001- 08-27 11:05	ΗЕ	2013 62	2800	1.03	15.48	15.50	64600	0.00	F	0.00	1.1 BOAT	CLEAR
172	2001-	E/SSW	2014 62	2800	1.39	15.72	15.70	87400	0.00	F	0.00	0.8 BOAT	CLEAR
171	2001- 06-14 H 1 11:25	E/SSW	2017 72	2900	3.95	21.34	21.38   2	288000	0.00	F	-0.03	0.8 BOAT	CLEAR
170	2001-	НЕ	2031 73	3500	4.79	23.77	23.84 : 3	352000	0.00	F	-0.01	1.2 BOAT	CLEAR
169	2001	E/SSW	1998 7	1500	4.79	22.60	22.70 <sup>†</sup> 3	343000	0.00	F	0.00	1.0 BOAT	CLEAR

		10:00											•
	168	2001- 04-16	H E/SSW	1982 6140	00 3.94	18.10	18.05	242000	0.00	P	+0.02	0.8 BOAT	CLEAR
	700	11:00	11 2, 20	1,02 01.0		10110	10.00		3.00	_			
	167	2001- 03-20	HE /SSW	1976 6890	00 3.69	18.83	18.83	254000	0.00	P	-0.03	1.1 BOAT	CLEAR
		09:40 2000-											
	166	11-16 11:55	НЕ	1972 6490	00 1.34	15.68	15.70	87300	0.00	F	0.00	0.9 BOAT	CLEAR
	165	2000- 10-26	HE/SSW	2006 6180	00 0.73	15.21	15.20	45300	0.00	P	0.00	1.0 BOAT	CLEAR
		10:10 2000-											
	164	09-21 11:10	H E/SSW	2004 6130	00 1.03	15.39	15.40	62900	+0.14	F	+0.03	1.0 BOAT	CLEAR
	1.60	2000-		2002 (200	0.50	15.00	1.7.00	1.70000	0.20	T.	0.00	11 DO 4	CLEAD
	162	07-13 11:48	H E/WEE	2002 6200	00 2.78	15.22	15.20	172000	-0.39	F	-0.02	1.1 BOAT	CLEAR
	161	2000- 06-29	H E/SW	1992 6200	00 4.76	20.28	20.30	292000	<b>±1 50</b>	F	-0.01	1.0 BOAT	CLEAR
		10:30	11 L/5 W	1332 0200		20.20	20.50				-0.01	1.0 DOM1	CLLITT
:	160	2000- 06-07	H E/SSW	2000 5260	:	15.88	15 89	174000	0.00	F	0.00	1.5 BOAT	CLEAR
	100	10:30	11 12/ 00 11	2000 3200	.0 5.02		13.03				0.00	1.5 20111	OBBIR
	159	2000- 05-18	H E/SSW	2012 6547	78 1.34	15.84	15.84	87600	+0.07	F	-0.02	1.0 BOAT	CLEAR
		11:25											
	158	2000- 03-23	H E/SSW	2567 5894	1 1.30	15.72	15.70	76600	-0.09	F	+0.02	1.0	CLEAR
		11:25							~ · ~ .	- -			
	157	2000- 02-15	H E/SSW	2527 5574	5 0.70	15.32	15.30	39000	-0.35	P	0.00	1.8 BOAT	CLEAR
		10:35											:

156	2000- 01-19 11:05	H E/SSW	2588	57689	0.60	15.27	15.30 3	4700 -0	.30	P	+	0.02	1.2 BOA	T	CLEAR
155	1999- 12-20 11:30	H E/WEE	2411	54501	0.81	15.26	15.25 4	4200 -0	.10	P	-	0.04	1.0 BOA	.T	CLEAR
154	1999- 11-15 12:30	H E/SSW	2507	58208	0.76	15.48	15.48 4	4200 -0	.28	F		0.00	1.3 BOA	T	CLEAR
153	1999- 10-07 10:10	H E/SSW	2530	58600	0.84	15.37	15.36 4	9300 -0	.17	F	+	0.04	1.6 BOA	T	CLEAR
152	1999- 09-27 10:45	H E/SSW	2560	57000	0.91	15.39	15.39 5	1900 0	.00	F	+	0.01	1.5 BOA	T	CLEAR
151		H E/SSW	2560	58200	1.69	15.86	15.88 9	8300 0	.00	F		0.00	1.2 BOA	.T	CLEAR
	09:40							•							
Number		Made By	Width (ft)	Area (ft²)	Mean Vel (ft/s)	Inside Gage Height (ft)	Outside Gage Height (ft)	Stream flow (ft³/s)	Shift Adj (ft)	MS Rated	Number of Sections	GH Change (ft)	GH Change (hr)	MS Type	Control
		<b>Made By</b> H E/SSW	(ft)	Area	Vel	Gage Height	Gage Height (ft)	flow	Adj	Rated	of	Change	Change (hr)	Туре	<b>Control</b> CLEAR
	Date  1999- 07-21 10:45 1999- 07-02 10:50	·	(ft) 2540	Area (ft²)	Vel (ft/s)	Gage Height (ft)	Gage Height (ft) 15.94	flow (ft³/s)	Adj (ft)	Rated F	of	Change (ft)	Change (hr)	<b>Type</b> BOAT	
150 149	1999- 07-21 10:45 1999- 07-02 10:50 1999-	H E/SSW	(ft) 2540 2532	Area (ft²) 58200 59600	Vel (ft/s) 2.27 3.12	Gage Height (ft)	Gage Height (ft) 15.94	flow (ft <sup>3</sup> /s) 132000 187000	Adj (ft) 0.00	Rated F	of	Change (ft) -0.01	Change (hr)  0.8	Type  BOAT  BOAT	CLEAR

146	1999- 03-04 10:25	H E/SSW	2552	57500	1.88	15.56	15.54	108000	0.00	F	+0.02	0.8 BOAT	CLEAR
145	1999- 02-25 10:50	H E/SSW	2518	56500	2.05	15.25	15.22	116000	0.00	F	-0.02	0.8 BOAT	CLEAR
144	1999- 01 <b>-</b> 27	H E/SSW	2550	57400	2.66	15.22	15.22	153000	-0.76	F	0.00	0.8 BOAT	CLEAR
143	1998- 12-23 11:15	14	2442	56800	1.19	15.54	15.52	67600	-0.09	F	0.00	0.8 BOAT	CLEAR
142	1998- 11-23 11:15	H E/S W	2552	57600	1.77	15.89	15.86	102000	-0.58	F	-0.02	0.8 BOAT	CLEAR
141	1998- 10-16 10:30	HE/SSW	2502	55000	1.12	15.30	15.25	61600	+0.20	F	0.00	1.0 BOAT	CLEAR
140	1998- 09-22 11:30	HE/SW	2488	55700	0.79	15.36	15.38	43900	0.00	F	+0.03	1.0 BOAT	CLEAR
139	1998- 08-12 11:40	H E/RW	2387	54000	2.18	16.00	15.99	118000	-0.43	F	+0.01	0.7 BOAT	CLEAR
138	1998- 07-08 11:47	HE/SW	2454	68300	4.14	20.99	21.06	283000	+0.29	F	+0.01	0.8 BOAT	CLEAR
137	1998- 05-18 11:40	H E/S W		56170	2.88	15.17		162000	-0.53	F	+0.01	0.8 BOAT	CLEAR
136	1998- 04-10 12:18	HE/SW	2516			22.59	22.68	307000	+0.42		0.00	0.8 BOAT	CLEAR
135	1998- 03-18 11:20			59200		16.42		207000		F	+0.07	0.9 BOAT	CLEAR

134	1998- 02-25 10:00	H E/S W	2426 56800	2.46	15.69	15.70 140000	-0.75	F		-0.03	1.0 BOAT CLEAR	, <b>.</b>
133	1998- 01-09 10:40	H E/SSW	2493 56800	3.27	16.46	16.41 186000	+2.35	F		-0.04	0.8 BOAT CLEAR	i
132	1997- 12-16 10:15	H E/SSW	2410 54300	1.07	15.46	15.45 58000	-0.54	F		+0.01	1.2 BOAT CLEAR	E.
131	1997- 11-04 12:20	H E/SSW	2493 56800	1.12	15.46	15.46 63400	+0.74	F		+0.02	1.0 BOAT CLEAR	i L
130	1997- 10-07 12:40	H E/ESS	2577 57800	0.79	15.36	15.35 45700	-0.77	F		0.00	1.2 BOAT CLEAR	L
129	1997- 08-18 10:45	НЕ	3276 68500	1.25	15.79	15.79 85700	+0.22	F		0.00	1.7 BOAT CLEAR	L
128	1997- 06-30	H E/S W	2923 62400	2.18	15.75	15.70 135500	-0.35	F		0.00	0.8 BOAT CLEAR	
126	1997- 06-03	HE/SW	2569 56000	2.52	15.24	141000	-0.41	F	20	0.00	0.7 BOAT CLEAR	
125	1997- 04-15 11:23	lgh/he	2606 72700	3.45	20.26	20.22 251000	+15.10	F	22	+0.05	1.3 BOAT CLEAR	
124	1997- 03-26 10:12	HEE/SW	2577 58300	3.07	15.75	15.75 179000	+1.05	P	21	-0.01	0.9 BOAT CLEAR	
123	1997- 02-19 10:35	SSW/H E	2577 60900			15.66 69700			19		1.1 BOAT CLEAR	L
122	1996- 12-09 10:15	lgh/sw		1.43	15.77	15.77 88000	+0.13			-0.01	1.9 BOAT CLEAR	Ĺ
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121	1996- 11-18 10:44	LGH/SW	2579	60100	1.00	15.35	15.35	60100	+1.77	F	20	+0.02	1.0 BOAT	CLEAR
120	1996- 10-31 10:40	LH/HE	2568	56100	1.01	15.55	15.55	56900	-0.93	F	19	0.00	1.0 BOAT	CLEAR
119	1996- 09-03 10:40	lgh/sw	2572	57100	1.03	15.30	15.30	58800	+1.90	F	20	0.00	1.0 BOAT	CLEAR
118	1996- 08-12 10:08	lgh/ls	2572	55700	1.77	15.56	15.56	98700	-0.62	F	20	+0.01	1.0 BOAT	CLEAR
117	1996- 07-26 11:40	lgh/ls	2570	55700	2.60	15.50	15.50	145000	-0.97	F		0.00	1.0 BOAT	CLEAR
116	1996- 06-20 10:06	lgh/ls	2591	64100	3.53	18.09	18.08	226000	-0.75		21	-0.01	1.1 BOAT	CLEAR
115	1996- 05-15 10:00	LAS	2040	67300	4.70	25.21	25.21	316000	-0.73	G ·	19	-0.01	1.3 BOAT	LGT DEBRIS
114	1996- 05-01 10:36	LAS/SSW	2594	62500	3.57	18.52	18.52	223000	0.00	G	21	-0.03	1.0 BOAT	LGT DEBRIS
113	1996- 04-24	WEE/LAS	2572	55400	2.83	15.50	15.50	157000	-0.78	G	21	-0.02	1.3 BOAT	LGT DEBRIS
112	10:40 1996- 03-22	LGH/LS	2571	55600	1.98	15.47	15.47	110000	-0.55	F	20	+0.01	1.0 BOAT	CLEAR
111	12:02 1996- 03-22	lgh/ls	2571	55800	1.85	15.46	15.46	103000	-0.71	P	19	+0.01	1.3 BOAT	CLEAR
110	10:07 1996- 02-21	lgh/ls	2574	59300	1.39		15.62	82400	+0.89	F		+0.01	1.0 BOAT	CLEAR
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	12:04													
109	1995- 12-14 12:33	LGH/HE	2568	55800	0.82	15.20	15.20	46000	-0.57	F	19	0.00	1.1 BOAT	CLEAR
108	1995- 11-20 11:00	lgh/ls	2577	57100	1.98	15.96	15.96 1	.13000	+0.16	F	20	0.00	1.1 BOAT	CLEAR
107	1995- 10-26 10:30	lgh/he	2813	56400	1.53	15.70	15.70	86100	+1.11	F	20	+0.03	0.8 BOAT	CLEAR
106	1995- 09-26 12:00	lgh/ls	2568	55200	0.79	15.26	15.27	43200	-0.44	F	20	+0.07	1.1 BOAT	CLEAR
105	1995- 08-23 09:48	lgh/HE	2568	56200	2.04	15.42	15.42 1	.11000	-0.49	F	20	+0.02	1.0 BOAT	CLEAR
104	1995- 07-24 12:23	LGH/LS	2568	56200	1.80	15.19	15.19 1	.01000	-0.33	F	20	0.00	0.9 BOAT	CLEAR
102	1995- 05-25 13:42	lgh	2040	73900	4.83	28.86	28.86 3	357000	+0.37		18	+0.01	0.4 BOAT	CLEAR
101	1995- 04-06 10:56	lh	2567	55100	3.39	15.66	15.66 1	87000	-0.67	F	22	0.00	1.0 BOAT	CLEAR
100	1995- 02-22 10:28	LGH/LSS	2567	56900	1.35	15.62	15.62	76600	+0.27	F	20	+0.01	0.9 BOAT	CLEAR
99	1995- 02-02 10:05	lrs/lgh	2564	58400	1.90	15.84	15.84 1	11000	+1.74	F	20	+0.03	1.3 BOAT	CLEAR
98	1994- 12-15 11:22	lgh/lss	2565		1.44	15.26	15.26	82000	+3.01	F		-0.02	0.9 BOAT	CLEAR
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97	1994- 11-10 kah/lss 12:30		0.00	16.03	16.03	109000	+1.94	F		-0.04	2.0	CLEAR
96	1994- 11-02 LGH/KWH 13:40	2569 58400	1.66	15.82		96700	+0.61	P	20	-0.01	0.7 BOAT	CLEAR
94	1994- 09-14 LGH/KWH 14:00	2566 52300	1.04	15.10		54400	+2.94		19	-0.01	0.8 BOAT	CLEAR
95	1994- 09-14 KWH/LGH 12:00		0.00	15.08	15.08	49720	+0.81	G		-0.01	1.0 BOAT	CLEAR
93	1994- 08-24 KWH/LGH 14:40		0.00	15.56	15.56	84200	+1.64	G			0.0 BOAT	CLEAR
92	1994- 08-24 LGH/KH 11:20	2567 53100	1.56	15.55	15.55	82700	+0.80	F	20	+0.01	0.9 BOAT	CLEAR
91	1994- 07-14 KWH/KO	•	0.00	15.34	15.34	112000	-0.17	G		0.00	1.0	CLEAR
90	1994- 06-06 LGH/KH 10:13	2568 54000	1.66	15.77	15.77	89800	+0.43	F	20	0.00	1.8 BOAT	CLEAR
89	1994- 05-24 LGH/KWH 12:53	2563 : 52500	2.51	14.92		132000	-0.42	F	20	-0.01	0.7 BOAT	CLEAR
88	1994- 03-31 LGH/GLG 13:29	2565 52200	2.59	15.28		135000	-0.76	F	19	-0.01	0.6 BOAT	CLEAR
87	1994- 03-09 LGH/GLG 13:45	2531 52400	3.72	16.85		195000	•	F	21	+0.01	0.5 BOAT	CLEAR
86	1993- 12-01 LGH/RNN 12:33	2531 56600	2.38	14.68	14.68	125000	-0.17	F	20	+0.01	1.7 BOAT	CLEAR

85	1993- 11-08 LGH/RNN 13:00	2560 51100	2.20	14.45	14.45 113000	-0.23	F	20	+0.01	0.9 BOAT	CLEAR
84	1993- 10-14 LGH/WEE 12:56	2516 56700	3.26	17.18	17.18 185000	+1.25	F	20	+0.02	1.2 BOAT	CLEAR
83	1993- 08-11 LGH/GLG 11:44	2620 77800	5.21		31.12 405000	+1.32	F	27	-0.03	0.8 BOAT	CLEAR
82	1993- 07-23 LGH/GLG 11:40	2810 98200	5.85	35.91	35.90 574000	0.00	F	28	+0.57	0.0 BOAT	CLEAR
- 81	1993- 07-19 LGH/GLG 11:00	2865 96300	5.39	35.36	35.41 519000	0.00	F	28	+0.04	0.7 BOAT	CLEAR
80	1993- 07-17 LGH/GLG 14:13	2740 94100	5.22		34.97 491000	0.00	F	19	+0.02	0.6 BOAT	CLEAR
79	1993- 07-15 LGH/GLG 13:53	2710 92200	4.65	;	33.14 429000	0.00	F	30	+0.01	1.0 BOAT	CLEAR
78	1993- 06-30 LGH/GLG 11:45	2040 5.00	4.68	24.76	24.76 306000	0.00	F	20	+0.01	0.9 BOAT	CLEAR
77	1993- 06-02 LGH/RNN 12:43	2578 61700	3.52	17.92	17.92 217000	-1.15	G	22	-0.01	0.9 BOAT	CLEAR
76	1993- 05-13 GLG/LGH 12:16	2040 83600	4.36	26.60	26.60 : 364000	-1.00	G	18	0.00	0.8 BOAT	CLEAR
75	1993- 04-06 WEE/LGH 12:39	2605 69300	3.94	21.66	21.65 273000	-0.90	G	22	0.00	0.9 BOAT	CLEAR
74	1993- 03-16 LGH/RNN	2563 59400	3.52	16.63	16.63   209000	+0.03	G	22	-0.08	1.2 BOAT	CLEAR

	11:43											
	1993-											
73	01-28 LGH/RNN	2563 55200	2.84	15.56	15.56	157000	-0.51	F	20	0.00	0.6 BOAT	CLEAR
	11:43	•								•		
	1992-											
72	11-10 RNN/LGH	2562 54400	2.21	15.28		120000	+1.03	F	21	0.00	0.8 BOAT	CLEAR
	11:33											
71	1992-	2569 55000	1.06	15.75	1576	100000	. 1. 70	T	20	0.00	0.0 0.4	CITAD
71	10-01 LGH/GLG 10:42	2568 55000	1.86	15.75	15.76	102000	+1.72	F	20	0.00	0.8 BOAT	CLEAR
	1992-											
70	09-09 LGH/RNN	2566 54400	1.16	15.54	15.55	62900	-0.47	F	20	+0.01	1.2 BOAT	CLEAR
	12:22								_ ,			
	1992-											
69	08-04 GLG/LGH	2564 54400	2.76	15.53	15.55	150000	+0.10	F	21	-0.02	0.7 BOAT	CLEAR
	09:54											
<b>C</b> O	1992-	2566 52000	1.04	15.00	15.00	00000	. 0 . 6 #	***	20	0.04	1.0.700.470	
68	07-14 LGH/GLG 13:41	2566 53900	1.84	15.38	15.38	99300	+0.65	F	20	-0.04	1.2 BOAT	
	1992-											
67	06-08 GLG/LGH	2564 55800	1.29	15.41	15.40	72000	+1.14	F	20	+0.02	1.0 BOAT	CLEAR
σ,	10:37	250: 2500	1.2	10.11	15.10	12000	1.11	•	20	. 0.02	1.0 20111	OBERT
	1992-											
66	05-20 LGH/WEE	2568 55600	1.76	15.60	15.58	97900	+2.03	$\mathbf{F}$	20	0.00	1.2 BOAT	CLEAR
	11:55											
- <b>-</b> -	1992-							_				
65	05-01 : RNN/LGH 09:58	2580 59900	3.86	17.71	17.71	231000	-0.14	F	22	0.00	0.6 BOAT	CLEAR
						•						
64	1992- 03-24 RNN/LGH	2568 57900	3.86	16.04	16.04	224000	+1.08	F	22	-0.02	0.9 BOAT	CLEAR
٧.	11:42				10.04	22 1000	11.00	*		0.02	0.5 DOM	
	1992-											
63	02-20 LGH/GLG	2564 60000	1.82	15.66		109000	+0.20	F	20	0.00	1.0 BOAT	CLEAR
	10:05											

62	1992- 01-22 10:26	GLG/LGH	2566	59500	1.25	15.47	15.47	74200	-0.36	F	20	0.00	0.9 BOAT	CLEAR
61	1991- 12-13 10:39	GLG/RNN	2567	58900	2.65	15.56	15.58	156000	+0,99	F	20	0.00	0.5 BOAT	CLEAR
60	1991- 11-26 13:04	GLG/LGH	2568	58000	2.67	15.82	15.82	155000	+1.59	F	20	0.00	0.7 BOAT	CLEAR
59	1991- 10-18 10:39	GLG/LGH	2564	55700	0.81	15.28	15.28	45300	+0.35	F	20	0.00	1.4 BOAT	CLEAR
58	1991- 09-30 10:23	LGH/RNN	2565	55600	1.17	15.36	15.36	65100	+1.70	F	25	0.00	1.1 BOAT	CLEAR
<b>5</b> 7 -	1991- 08-08 10:21	GLG/LGH	2566	56200	1.72	15.74	15.74	96600	+1.32	F	20	-0.01	1.1 BOAT	CLEAR
56	1991- 07-18 11:20	GLG/LGH	2565	55000	2.32	15.67	15.68	128000	+1.74	F	20	+0.02	0.7 BOAT	CLEAR
55	1991- 06-11 10:50	LGH/GLG	2583 5	58400	3.72	18.02	18.02	218000	-1.20	F	21	+0.02	0.6 BOAT	CLEAR
54	1991- 05-17 12:52	LGH/RNN	2584	61600	3.84	18.65	18.65	236000	0.00	, <b>F</b>	22	0.00	1.0 BOAT	MOD DEBRIS
53	1991- 04-01 12:06	GLG/LGH	2576	60100	4.14	17.64	17.64	248000	+0.85	F	22	+0.01	0.7 BOAT	LGT DEBRIS
52	1991- 02-08 13:10	GLG/LGH	2549 5	57100	2.14	15.92		122000	+1.94	F	20	-0.04	0.8 BOAT	CLEAR
51	1990- 12-10	GLG/LGH	2552 5	54500	1.75	15.00		95500	+1.44	F	20	0.00	1.1 BOAT	CLEAR

Number	Date	Made By	Width (ft)	Area (ft²)	Mean Vel (ft/s)	Inside Gage Height (ft)	Outside Gage Height (ft)	Stream flow (ft³/s)	Shift Adj (ft)	MS Rated	Number of Sections	GH Change (ft)	GH Change (hr)	MS Type	Control
50	1990- 10-31 10:00	GLG/LGH	2553	54000	1.41	15.26	15.26	76300	+1.52	F	20	-0.02	1.6	BOAT	CLEAR
49	1990- 09-17 10:18	LGH/GLG	2563	50900	1.40	14.79	14.80	71000	-1.04	F		-0.02	1.3		CLEAR
48	1990- 08-07 11:00	GLG/LGH	2557	51600	3.25	15.46	15.46	168000	-1.26	G	22	+0.01	1.0	BOAT	CLEAR
47	1990- 07-05 10:14	GLG/DOH	2608	67300	4.23	21.16	21.14	285000	-0.56	G	26	+0.01	2.0	BOAT	CLEAR
46	1990- 06-25 10:30	DOH/SRF	8755	88800	3.79	24.40		337000	-1.06	G	48	0.00	2.0	BOAT	
45	1990- 06-19 10:00	DOH/LGH	2583	59700	3.40	17.95	17.95	203000	-0.15	· · · · · · · · · · · · · · · · · · ·	23	+0.04	1.0	BOAT	
44	1990- 05-21 10:00	GLG/DOH	2594	63400	3.06	19.68		194000	+1.92	G	22	-0.08	1.0	BOAT	
43	1990- 05-08 10:00	DOH/LGH	2566	52700	2.94	15.32	15.32	155000	-0.60	G	22	-0.02	1.0	BOAT	:
42	1990- 04-23 10:00	GLG/LGH	2570	53770	1.12	15.33	15.30	60300	+0.13	G	36	0.00	1.0	BOAT	
41	1990-	GLG	2578	59373	3.94	17.60	17.54	234000	+0.09		23	-0.04	2.0	BOAT	

	03-23 10:00													
40	1990- 03-13 09:00	RNN	2566	52900	3.23	15.32		171000	+6.08	F	20	-0.03	2.0 BOAT	
39	1990- 03-05 10:00	RNN	2568	53060	1.31	15.50	15.50	69500	+1.79		36		0.0 BOAT	,
38	1990-	DOH/LGH	2542	55800	0.81	15.60	15.60	45300	+0.78	F	36		0.0 BOAT	CLEAR
37	1990-	LGH/DOH	2495	54320	0.50	15.10	15.09	31200	-1.73	F	35	0.00	4.0 BOAT	
36	1989-	GLG/DOH	2516	53400	0.62	15.43	15.44	33100	-1.85	F	35	0.00	2.0 BOAT	CLEAR
35	1989-	GLG/DOH	2535	55400	0.66	15.27	15.24	36400	-3.27	F	36	0.00	2.0 BOAT	SUBMERGED
	1989- 10-10 10:00	RNN	2566	53000	0.53	15.28	15.30	28300	-0.10	F	36	0.00	1.0 BOAT	
٠	1989- 09-11	RNN	2543	52600	1.95	15.40	15.40	102000	+1.46	F .	37		0.0 BOAT	· · · · · · · · · · · · · · · · · · ·
32		DOH/LGH	2511	52942	0.50	15.36	15.35	26300	0.00	F	35	0.00	1.0 BOAT	
31		DOH/LGH	2532	53474	0.81	15.46	15.49	43400	-0.86	G	36	0.00	1.0 BOAT	CLEAR
30	10:00 1989- 06-02 09:00	LGH/DOH	2572	53145	1.50	15.44	15.44	79300	+1.34	G	21		0.0 BOAT	

29	1989- 05-23 GLG/DOH 09:00	2501 53800	1.09	15.44	15.46 58	3700 +1.17	F	20	0.00	1.0 BOAT	
28	1989- 04-13 GLG/LGH 12:00	2557 54809	2.28	15.35	15.36 125	5000 +0.97	G	22	0.00	2.0 BOAT	
27	1989- 03-17 RNN/DOH 09:00	2556 56676	1.85	15.19	105	5000 +3.23	G	21	0.00	1.0 BOAT	SUBMERGED
26	1989- 01-27 LGH/DOH 09:00	2512 54188	0.70	15.24	15.24 37	7800 -1.22		20		0.0 BOAT	
25	1988- 12-21 DOH/RNN 10:00	2495 54650	0.65	15.49	15.50 35	5600 -1.12	F	20	-0.01	2.0 BOAT	
22	1988- 09-13 GLG 10:00	2472 52920	0.39	15.09	15.10 20	0600 +0.03	F	20	0.00	1.0 BOAT	CLEAR
20	1988- 07-14 DOH 10:00	2525 53910	0.52	15.30	15.30 28	3300 0.00	F	20		0.0 BOAT	CLEAR
	1988- 06-16 DOH/LGH 10:00	2527 53810	0.45	15.26	15.26 24	1300 0.00	$\mathbf{F}$	20		0.0 BOAT	CLEAR
18	1988- 05-13 DOH/LGH 10:00	2525 54688	1.35	15.42	15.42 73	3700 +0.67	G	20		0.0 BOAT	CLEAR
17	1988- 04-01 DOH 10:00	2541 58220	2.63	15.72		7000 +1.51	G	22	0.00	1.0 BOAT	CLEAR
16	1988- 03-10 DOH 10:00	2479 59600		15.80	15.80 : 109	9000 +0.41	G	20	0.00	1.0 BOAT	CLEAR
15	1988- 02-19 RNN	2526 59850		15.79	15.80 99	9400 +0.19	F	21		0.0 BOAT	LGT DEBRIS

10:00 1986-1 06-17 DH 2560 54940 3.25 15.60 15.60 186 -0.60 F 22 0.0 BOAT 10:00

Top

Explanation of terms

Questions about data?

Feedback on this web site

Surface Water for USA: Streamflow Measurements http://waterdata.usgs.gov/nwis/measurements?

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National Water Information System: Web Interface

Data	Cate	gory:	
Su	face	Water	

Geographic Area:

United States ▼

GO

USGS 05587450 Mississippi River at Grafton, IL

## PROVISIONAL DATA SUBJECT TO REVISION

Available data for this site

Time-series: Daily data





Station operated in cooperation with the U.S. Army Corps of Engineers - St. Louis District.

The X-hour precipitation data for this station are temporary and will only be displayed for 31 days. Time series of X-hour or cumulative daily values will NOT be available for retrieval following the 31-day display period. Although the instrumentation is calibrated at least once/year, the temporary classification means that documented routine inspections and other quality assurance measures are not performed that would make the data acceptable for archival, retrieval, or future use in general scientific or interpretive studies.

	Available Parameters	Period of Record	Output format	Begin date	
<u> </u>	All 3 Available Parameters for this site		Table	2002-01-0	GO
Γ	00065 Gage height (Obs.)	1986-11-14 2006-06-2	1	•	
. 🔽	00060 Discharge (Mean)	1933-04-01 2005-09-3	0	End date	
	00045 Precipitation (Sum)	1995-06-28 2006-06-2	<b>1</b> <sup>13</sup>	2006-06-2	

Date Stream-flow (ft³/s) (Mean)
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- 79,200 A 07/12/2005
- 73,000 A 07/13/2005
- 71,900 A 07/14/2005
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- 54,500 <sup>A</sup> 07/20/2005
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08/29/2005	38,400 <sup>A</sup>
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09/01/2005	38,000 <sup>A</sup>
09/02/2005	38,100 <sup>A</sup>
09/03/2005	32,700 <sup>A</sup>
09/04/2005	30,700 <sup>A</sup>
09/05/2005	35,800 <sup>A</sup>
09/06/2005	34,300 <sup>A</sup>
09/07/2005	34,100 <sup>A</sup>
09/08/2005	33,600 <sup>A</sup>
09/09/2005	33,300 <sup>A</sup>
09/10/2005	34,800 <sup>A</sup>
09/11/2005	40,100 <sup>A</sup>
09/12/2005	39,200 <sup>A</sup>
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09/15/2005	27,400 <sup>A</sup>
09/16/2005	34,300 <sup>A</sup>
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09/19/2005	43,900 <sup>A</sup>
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09/21/2005	29,700 <sup>A</sup>
09/22/2005	42,600 <sup>A</sup>
09/23/2005	51,400 <sup>A</sup>
09/24/2005	52,200 A
09/25/2005	52,700 <sup>A</sup>
09/26/2005	48,800 <sup>A</sup>
09/27/2005	43,800 <sup>A</sup>
09/28/2005	45,200 <sup>A</sup>
09/29/2005	54,300 <sup>A</sup>
09/30/2005	58,900 <sup>A</sup>

#### Explanation

A Approved for publication -- Processing and review completed.

e Value has been estimated.

Questions about data?
Feedback on this web site
USGS Surface-Water Daily Data for the Nation
http://waterdata.usgs.gov/nwis/dv?

<u>Top</u>

Explanation of terms

Retrieved on 2006-06-22 14:44:14 EDT

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4.51 1.36 ca03

#### WOOD RIVER, ILLINIOS CSO LONG TERM CONTROL PLAN

#### Appendix K Analysis of CSO Impacts to the Mississippi River

#### Mean River Velocity

September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   September   Sept	Date & Time	Mean Velocity (ft/s)	Date & Time	Mean Velocity (ft/s)	Date & Time	Меап Velocity (ft/s)	Date & Time	Mean Velocity (ft/s)
5/30/2006 11:24								
Afrigodo 61:23   3.45   11/16/2000 11:55   1.34   51/1996 10:36   3.57   22/01992 10:26   1.25   10/20/2005 10:04   3.49   9/21/2000 11:10   1.03   3/22/1996 12:02   1.98   11/21/9199 11:03   2.65   8/26/2005 10:34   0.62   71/32/000 11:48   2.78   3/22/1996 10:07   1.85   11/26/1999 11:03   2.65   8/26/2005 10:35   0.66   6/28/2000 10:30   3.02   21/41/996 12:04   1.39   10/16/1991 10:39   0.81   8/26/2005 10:16   0.57   6/7/2000 10:30   3.02   21/41/996 12:04   1.39   10/16/1991 10:39   0.81   1.77   7/25/2005 10:35   1.04   5/18/2000 11:25   1.3   11/20/1995 11:00   1.98   8/18/991 10:21   1.77   6/27/2005 9:55   1.04   5/18/2000 11:25   1.3   11/20/1995 11:00   1.98   8/18/991 10:21   1.72   6/27/2005 9:55   1.04   5/18/2000 11:25   1.3   11/20/1995 10:30   1.53   7/18/1991 11:00   3.72   5/27/2005 9:43   2.24   2/15/2000 10:35   0.7   9/26/1995 12:20   0.79   6/11/1991 10:50   3.72   4/28/2005 11:32   3.19   11/9/2000 11:05   0.6   8/23/1995 14:20   0.79   6/11/1991 10:50   3.72   4/28/2005 10:10   1.35   12/20/1999 11:30   0.81   7/24/1995 12:23   1.8   4/1991 12:06   4.14   1/27/2005 10:45   3.57   11/5/1999 10:10   0.84   4/68/1995 10:26   3.39   12/10/1995 10:40   1.75   1/29/2004 10:31   2.79   22/7/1999 10:50   0.81   2/2/1995 10:28   3.35   10/31/1995 10:40   1.75   1/29/2004 10:30   1.11   8/17/1999 9:40   0.89   2/2/1995 10:26   3.39   12/10/1995 10:40   1.41   1/27/2005 10:29   1.41   1/27/1999 10:50   3.12   1/2/1994 11:22   4/2/1995 10:05   3.12   1/2/1994 11:22   4/2/1995 10:05   3.12   1/2/1994 11:22   4/2/1995 10:05   3.12   1/2/1994 11:22   3.24   3/2/1995 10:05   3.12   1/2/1994 11:23   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00   3.25   3/2/1995 10:00		1.87		3.69	5/15/1996 10:00			3.86
36/2006 15.42								
10/20/2005 10:40   3.49   9/21/2000 11:10   1.03   32/2/1996 10:07   1.98   12/13/1991 10:39   2.65   8/16/2005 10:34   0.62   7/13/2000 11:48   2.76   32/2/1996 10:07   1.39   1.01/8/1991 10:39   0.81   8/16/2005 10:16   0.75   6/70/2000 10:30   3.02   27/4/1995 12:33   0.82   9/30/1991 10:39   0.81   8/16/2005 10:16   0.75   6/70/2000 10:30   3.02   27/4/1995 12:33   0.82   9/30/1991 10:39   0.81   8/16/2005 10:35   1.04   5/18/2000 11:25   1.34   11/20/1995 11:00   1.98   8/4/1991 10:21   1.72   8/16/2005 9:50   1.94   32/2000 11:25   1.31   10/26/1995 10:30   1.53   7/18/1991 11:00   3.72   8/16/2005 9:50   1.94   32/2000 11:25   1.31   10/26/1995 10:30   1.53   7/18/1991 11:00   3.72   8/16/2005 9:50   3.49   21/2000 10:35   0.7   9/26/1995 10:30   0.79   6/11/1991 10:50   3.72   8/16/2005 9:50   3.49   11/20000 11:00   0.6   8/23/1995 10:30   0.79   6/11/1991 10:50   3.72   8/16/2005 10:10   1.55   12/20/1999 11:30   0.61   7/24/1995 12:23   1.8   4/11/1991 12:06   4.14   8/16/2005 10:47   2.37   10/7/1999 10:10   0.84   4/6/1995 10:25   3.39   4/11/1999 10:40   1.75   8/16/2005 10:47   2.37   10/7/1999 10:10   0.84   4/6/1995 10:25   3.39   12/10/1999 10:40   1.75   8/16/2005 10:47   2.37   10/7/1999 10:10   0.84   4/6/1995 10:25   3.39   12/10/1999 10:40   1.75   8/16/2005 10:47   2.37   10/7/1999 10:50   0.84   4/6/1995 10:25   1.35   10/3/1999 10:40   1.75   8/16/2005 10:47   2.37   10/7/1999 10:50   3.12   11/10/1904 11:20   0.75   1.95   10/3/1999 10:40   1.75   8/16/2005 10:25   1.24   1.72/1999 10:50   3.12   11/10/1904 11:20   0.75/1909 10:40   1.75   8/16/2005 10:25   1.24   1.72/1999 10:50   3.12   11/10/1904 11:20   0.75/1909 10:40   3.25   8/16/2005 10:25   2.24   2.72/1999 10:50   3.6   8/14/1904 11:20   0.75/1909 10:40   3.76   8/16/2005 10:25   2.24   2.72/1999 10:50   3.6   8/14/1904 11:20   0.5   8/14/1904 11:20   0.5   8/14/1904 11:20   0.5   8/14/1904 11:20   0.5   8/14/1904 11:20   0.5   8/14/1904 11:20   0.5   8/14/1904 11:20   0.5   8/14/1904 11:20   0.5   8/14/1904 11:20   0.5								
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2/25/2004 10:40         1.39         12/23/1998 11:15         1.19         7/14/1994         0         3/23/1990 10:00         3.94           1/8/2004 10:15         0.7         11/23/1998 11:15         1.77         6/6/1994 10:13         1.66         3/13/1990 10:00         3.23           1/13/2003 10:31         0.84         10/16/1998 10:30         0.79         3/31/1994 13:25         2.51         3/5/1990 10:00         0.81           7/16/2003 10:35         0.52         9/22/1998 11:30         0.79         3/31/1994 13:45         3.72         1/16/1990 10:00         0.5           6/9/2003 10:35         2.02         7/8/1998 11:40         2.18         3/9/1994 13:45         3.72         1/16/1990 10:00         0.5           5/9/2003 10:35         3.57         5/18/1998 11:40         2.88         11/8/1993 13:00         2.2         11/6/1989 10:00         0.66           3/13/2003 10:00         0.73         4/10/1998 12:18         4.13         10/14/1993 12:33         2.36         10/10/1998 10:00         0.53           1/2/2002 11:05         1.2         2/25/1998 10:00         2.46         7/23/1993 11:44         5.21         9/11/1989 10:00         0.5           9/27/2002 9:15         0.8         1/9/1998 10:00         3.27         7/19/1993 11:03						_		
1/8/2004 10:15         0.7         11/23/1998 11:15         1.77         6/6/1994 10:13         1.66         3/13/1990 9:00         3.23           11/13/2003 10:31         0.84         10/16/1998 10:30         1.12         5/24/1994 12:53         2.51         3/5/1990 10:00         1.31           7/16/2003 10:35         0.52         9/22/1998 11:30         0.79         3/31/1994 13:45         3.72         1/16/1990 9:00         0.5           6/9/2003 10:35         2.02         7/8/1998 11:47         4.14         12/1/1999 12:33         2.38         12/1/1998 11:00         0.62           5/9/2003 10:35         3.57         5/18/1998 11:40         2.88         11/8/1993 13:00         2.2         11/6/1989 10:00         0.62           3/3/2003 10:00         0.73         4/10/1998 12:18         4.13         10/14/1993 12:56         3.26         10/10/1989 10:00         0.53           12/23/2002 10:40         0.96         3/18/1998 11:20         3.5         8/11/1993 11:40         5.85         8/24/1989 10:00         1.95           11/2/2002 11:05         1.2         2/25/1998 10:00         2.46         7/23/1993 11:40         5.85         8/24/1989 10:00         0.5           8/2/2002 11:05         1.57         12/16/1997 10:15         1.07         7/17/1993								
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11/12/2002 11:05         1.2         2/25/1998 10:00         2.46         7/23/1993 11:40         5.85         8/24/1989 10:00         0.5           9/27/2002 9:15         0.8         1/9/1998 10:40         3.27         7/19/1993 11:00         5.39         7/26/1989 10:00         0.81           8/2/2002 11:05         1.57         12/16/1997 10:15         1.07         7/17/1993 14:13         5.22         6/2/1989 9:00         1.5           6/13/2002 9:18         4.94         11/4/1997 12:20         1.12         7/15/1993 13:53         4.65         5/23/1989 9:00         1.09           5/22/202 18:24         4.93         10/7/1997 12:40         0.79         6/30/1993 11:45         4.68         4/13/1989 12:00         2.28           5/9/202 11:15         4.32         8/18/1997 10:45         1.25         6/2/1993 12:43         3.52         3/17/1989 9:00         1.85           4/1/2002 11:11         1.49         6/30/1997         2.18         5/13/1993 12:16         4.36         1/27/1989 9:00         0.7           1/29/2002 10:05         1.13         6/3/1997         2.52         4/6/1993 12:39         3.94         12/21/1988 10:00         0.65           12/13/2001 10:12         1.65         4/15/1997 10:12         3.07         1/28/1993 11:43         <								
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5/22/2002 18:24         4.93         10/7/1997 12:40         0.79         6/30/1993 11:45         4.68         4/13/1989 12:00         2.28           5/9/2002 11:15         4.32         8/18/1997 10:45         1.25         6/2/1993 12:43         3.52         3/17/1989 9:00         1.85           4/1/2002 11:11         1.49         6/30/1997         2.18         5/33/1993 12:16         4.36         1/27/1989 9:00         0.7           1/29/2002 10:05         1.13         6/3/1997         2.52         4/6/1993 12:39         3.94         12/21/1988 10:00         0.65           12/13/2001 10:12         1.65         4/15/1997 10:12         3.45         3/16/1993 11:43         3.52         9/13/1988 10:00         0.39           11/15/2001 11:05         1.2         3/26/1997 10:12         3.07         1/28/1993 11:43         2.84         7/14/1988 10:00         0.52           10/24/2001 10:10         1.77         2/19/1997 10:35         1.14         11/10/1992 11:33         2.21         6/16/1988 10:00         0.45           9/27/2001 10:25         1.08         12/9/1996 10:15         1.43         10/1/1992 10:42         1.86         5/13/1988 10:00         1.35           8/7/2001 10:05         1.39         10/31/1996 10:40         1.01         8/4/1992 9:54 <td>6/13/2002 9:18</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	6/13/2002 9:18							
5/9/2002 11:15         4.32         8/18/1997 10:45         1.25         6/2/1993 12:43         3.52         3/17/1989 9:00         1.85           4/1/2002 11:11         1.49         6/30/1997         2.18         5/13/1993 12:16         4.36         1/27/1989 9:00         0.7           1/29/2002 10:05         1.13         6/3/1997         2.52         4/6/1993 12:39         3.94         12/21/1988 10:00         0.65           12/13/2001 10:12         1.65         4/15/1997 11:23         3.45         3/16/1993 11:43         3.52         9/13/1988 10:00         0.39           11/15/2001 11:05         1.2         3/26/1997 10:12         3.07         1/28/1993 11:43         2.84         7/14/1988 10:00         0.52           10/24/2001 10:10         1.77         2/19/1997 10:35         1.14         11/10/1992 11:33         2.21         6/16/1988 10:00         0.45           9/27/2001 10:25         1.08         12/9/1996 10:15         1.43         10/1/1992 10:42         1.86         5/13/1988 10:00         1.35           8/27/2001 11:05         1.03         11/18/1996 10:44         1         9/9/1992 12:22         1.16         4/1/1988 10:00         1.82           8/7/2001 10:05         1.39         10/31/1996 10:40         1.01         8/4/1992 9:54	5/22/2002 18:24	4.93		0.79				
4/1/2002 11:11       1.49       6/30/1997       2.18       5/13/1993 12:16       4.36       1/27/1989 9:00       0.7         1/29/2002 10:05       1.13       6/3/1997       2.52       4/6/1993 12:39       3.94       12/21/1988 10:00       0.65         12/13/2001 10:12       1.65       4/15/1997 11:23       3.45       3/16/1993 11:43       3.52       9/13/1988 10:00       0.39         11/15/2001 11:05       1.2       3/26/1997 10:12       3.07       1/28/1993 11:43       2.84       7/14/1988 10:00       0.52         10/24/2001 10:10       1.77       2/19/1997 10:35       1.14       11/10/1992 11:33       2.21       6/16/1988 10:00       0.45         9/27/2001 10:25       1.08       12/9/1996 10:15       1.43       10/4/1992 10:42       1.86       5/13/1988 10:00       1.35         8/27/2001 11:05       1.03       11/18/1996 10:44       1       9/9/1992 12:22       1.16       4/1/1988 10:00       2.63         8/77/2001 10:05       1.39       10/31/1996 10:40       1.01       8/4/1992 9:54       2.76       3/10/1988 10:00       1.82         6/14/2001 11:25       3.95       9/3/1996 10:40       1.03       7/14/1992 13:41       1.84       2/19/1988 10:00       1.66         5/23/2001 14:00								
1/29/2002 10:05         1.13         6/3/1997         2.52         4/6/1993 12:39         3.94         12/21/1988 10:00         0.65           12/13/2001 10:12         1.65         4/15/1997 11:23         3.45         3/16/1993 11:43         3.52         9/13/1988 10:00         0.39           11/15/2001 11:05         1.2         3/26/1997 10:12         3.07         1/28/1993 11:43         2.84         7/14/1988 10:00         0.52           10/24/2001 10:10         1.77         2/19/1997 10:35         1.14         11/10/1992 11:33         2.21         6/16/1988 10:00         0.45           9/27/2001 10:25         1.08         12/9/1996 10:15         1.43         10/1/1992 10:42         1.86         5/13/1988 10:00         1.35           8/27/2001 11:05         1.03         11/18/1996 10:44         1         9/9/1992 12:22         1.16         4/1/1988 10:00         2.63           8/7/2001 10:05         1.39         10/31/1996 10:40         1.01         8/4/1992 9:54         2.76         3/10/1988 10:00         1.82           6/14/2001 11:25         3.95         9/3/1996 10:40         1.03         7/14/1992 13:41         1.84         2/19/1988 10:00         1.66           5/23/2001 14:00         4.79         8/12/1996 10:08         1.77         6/8/1992 10:								
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11/15/2001 11:05       1.2       3/26/1997 10:12       3.07       1/28/1993 11:43       2.84       7/14/1988 10:00       0.52         10/24/2001 10:10       1.77       2/19/1997 10:35       1.14       11/10/1992 11:33       2.21       6/16/1988 10:00       0.45         9/27/2001 10:25       1.08       12/9/1996 10:15       1.43       10/1/1992 10:42       1.86       5/13/1988 10:00       1.35         8/27/2001 11:05       1.03       11/18/1996 10:44       1       9/9/1992 12:22       1.16       4/11/1988 10:00       2.63         8/7/2001 10:05       1.39       10/31/1996 10:40       1.01       8/4/1992 9:54       2.76       3/10/1988 10:00       1.82         6/14/2001 11:25       3.95       9/3/1996 10:40       1.03       7/14/1992 13:41       1.84       2/19/1988 10:00       1.66         5/23/2001 14:00       4.79       8/12/1996 10:08       1.77       6/8/1992 10:37       1.29       6/17/1986 10:00       3.25								
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	4/30/2001 10:00	4.79	7/26/1996 11:40	2.6	5/20/1992 11:55	1.76		

Mean Velocity (ft/s)

2.2

Distance from CSO to Intake (ft)

31680

Time to Travel from CSO to Intake

4.053422216

#### WOOD RIVER, ILLINIOS CSO LONG TERM CONTROL PLAN

## Appendix K Analysis of CSO Impacts on the Mississippi River

#### Average Resulting Fecal Coliform Level Increases

Date 9/17/2002 9/19/2002 10/4/2002 10/25/2002 11/5/2002 12/18/2002 2/14/2003 3/13/2003	83,000 83,100 68,500	River Flow MGD 53,641 53,705	amount discharged (mg) 5	Duration of CSO Discharge (hr)	Fecal At Alton	Fecal in CSO	Resulting Fecal	Increase
9/17/2002 9/19/2002 10/4/2002 10/25/2002 11/5/2002 12/18/2002 2/14/2003	83,000 83,100 68,500	53,641		Discharge (in)		000	I CCUI	
9/19/2002 10/4/2002 10/25/2002 11/5/2002 12/18/2002 2/14/2003	83,100 68,500			2.75	100	1300000	1157	1057
10/4/2002 10/25/2002 11/5/2002 12/18/2002 2/14/2003	68,500		4	4	200	395000	376	176
10/25/2002 11/5/2002 12/18/2002 2/14/2003		44,270	1	1,5	1200	2950000	2265	1065
11/5/2002 12/18/2002 2/14/2003		65,273	2	3	2700	160000	2739	39
12/18/2002 2/14/2003	101,000 81,900	52,930	2	2	1000	265000	1120	120
2/14/2003	73,500	47,501	1	1,5	300	225000	376	76
	48,300	31,215	4	2.5	100	260000	419	319
	45,400	29,341	1	1.25	300	98000	364	64
3/19/2003	59,900	38,712	3	2.75	100	867500	686	586
3/20/2003	93,500	60,426	1	0.9	200	27000		
3/28/2003		43,623	6	3	1800	3400000	212 5535	12 3735
4/4/2003	67,500 60,000	38,776	3	2	400			767
		69,151	3 4	4	700	827500	1167	
4/24/2003	107,000		6	4		230000	780	80
4/25/2003	110,000	71,090			800	370000	987	187
4/28/2003	123,000	79,491	3	2.25	900	250000	1000	100
5/8/2003	220,000	142,180	5	2.5	2700	510000	2871	171
5/30/2003	221,000	142,826	1	1	300	2500000	720	420
6/26/2003	106,000	68,505	43	7	3000	200000	3423	423
7/18/2003	148,000	95,648	4	2	400	325000	563	163
7/28/2003	105,000	67,859	1	1	800	420000	948	148
9/26/2003	25,300	16,351	4	1.5	1300	590000	3595	2295
10/9/2003	39,600	25,592	4	3	200	2200000	2947	2747
11/17/2003	58,900	38,065	29	4	200	33000	349	149
11/18/2003	82,200	53,124	7	2.5	2600	33500	2639	39
12/9/2003	54,200	35,028	1	1	800	2050000	2203	1403
12/22/2003	57,400	37,096	6	6	2700	185000	2818	118
3/4/2004	106,000	68,505	9	5	300	340000	514	214
3/25/2004	108,000	69,797	3	2.5	500	170000	570	70
3/26/2004	113,000	73,029	5	3	6500	7500000	10602	4102
4/30/2004	115,000	74,321	14	2	800	1497500	4176	3376
5/12/2004	87,200	56,355	1	1	700	3550000	2211	1511
5/13/2004	92,100	59,522	17	20	100	5200000	1882	1782
5/19/2004	114,000	73,675	4	3.5	1500	255000	1594	94
5/25/2004	172,000	111,159	7	4.25	1000	410000	1145	145
5/26/2004	224,000	144,765	5	4	2900	2800000	3480	580
5/27/2004	244,000	157,690	17	6	4000	3000000	5291	1291
6/9/2004	297,000	191,943	3	2.5	2800	580000	2887	87
6/15/2004	273,000	176,432	2	1.5	600	440000	680	80
6/16/2004	272,000	175,786	14	5	900	4150000	2486	1586
7/6/2004	199,000	128,608	14	4	11900	390000	12147	247
7/30/2004	91,300	59,005	11	4	1200	330000	1567	367
8/4/2004	88,600	57,260	4	2	400	1800000	1907	1507
8/24/2004	68,500	44,270	4	1.5	400	2100000	3431	3031
8/25/2004	75,500	48,794	7	2.5	100	490000	774	674
9/15/2004	63,300	40,909	89	2.5	300	315000	6738	6438
10/14/2004	69,100	44,657	3	6	200	2000000	737	537
10/18/2004	75,200	48,600	20	7.5	1400	90000	1517	117
10/26/2004	88,100	56,937	. 5	2	100	2850000	3100	3000
1/4/2005	150,000	96,941	30	16	2200	53000	2224	24
1/5/2005	206,000	133,132	3	2.5	4400	16500	4403	3
1/12/2005	149,000	96,295	21	8	1500	52500	1533	33
3/22/2005	84,200	54,416	32	7.75	100	7000	113	13
6/8/2005	123,000	79,491	3	1.5	300	3900000	2653	2353
6/13/2005	122,000	78,845	9	3	100	535000	588	488
7/11/2005	79,800	51,573	7	12	200	19000	205	400 5
15-Jul	68,200	44,076	10	2	2100	395000	3167	1067
7/18/2005	61,500	39,746	9	2	99	2100000	5790	5691
8/15/2005	43,700	28,242	50	2 8				
					200	5900000	31370	31170
8/25/2005	41,000	26,497	9	2	100	560000	2373	2273
8/29/2005	38,400	24,817	8	1.5	100	2200000	11388	11288
9/14/2005	36,000	23,266	2	1.75	100	900000	1160	1060
9/15/2005	27,400	17,708	5	4	1500	1900000	4711	3211
9/28/2005	45,200	29,211	4	2	100	580000	1051	951

## APPENDIX L

**Final Revised Sampling Plan** 

## CITY OF WOOD RIVER, ILLINOIS RESPONSE TO U.S.E.P.A. ADMINISTRATIVE ORDER [ Docket No.: V-W-05-AO-16]

# PROPOSED SAMPLING / TESTING PLAN FOR CHARACTERIZATION OF THE MISSISSIPPI RIVER AND CSO DISCHARGE FLOWS FOR CSO LONG TERM CONTROL PLAN DEVELOPMENT

Prepared By
HORNER & SHIFRIN, INC.

AUGUST 2006
REVISED SEPTEMBER 2006

#### I. Introduction

In order to more accurately assess the potential affects of Wood River's CSO discharges on the Mississippi River, additional sampling and analytical testing of Wood River's CSO flows (and of the River in the vicinity of the City's CSO outfall) must be completed. In the interests of reducing costs, this sampling and testing will be performed by the Wood River WWTP operating staff to obtain the necessary data. The sampling plan described below details the general methods, locations, and analytical tests to be used to accomplish this CSO characterization effort.

#### II. Sampling / Testing Plan Details

#### A. River Sampling

Wood River's WWTP operating staff will first be responsible for sampling the Mississippi River at the following locations: approximately one-half mile upstream of the CSO outfall, at the CSO outfall, and approximately one-half mile downstream of the CSO outfall. These approximate locations for sampling points are shown on both the aerial photograph and the USGS topographic map attached. These locations will be "fine tuned" during a site inspection conducted by H&S and Wood River staff, to promote worker safety during sampling. Grab samples will be taken from the bank with the use of an extension device, or will be taken by wading into the River shallows a very short distance (but only if it is deemed to be safe). Samples will then be manually taken from approximately one foot under the surface of the water. The sampling locations and method of obtaining the sample will be consistent throughout the performance of this sampling plan, and documented for each sampling event.

River sampling will occur three times during dry weather, when no CSO discharge is occurring, to obtain a base line for water quality in the Mississippi River. The first dry weather sampling event will occur during the site inspection and sampling location "fine tuning" visit. Subsequent dry weather sampling will occur periodically, during the time frame in which the wet weather samples are collected, at the Wood River WWTP staff's convenience. However, dry weather sampling shall not occur two consecutive days in a row.

River sampling will also occur three times during wet weather events, when CSO discharges are occurring, to provide a better understanding of the potential affect of the Wood River CSO discharge flows on the Mississippi River. During wet weather events, sampling at all three chosen locations will occur three times over the course of a three-hour time frame while the CSO discharge is occurring.

#### B. CSO Sampling

Since the City of Wood River has only one point of CSO discharge, the sampling location and logistics for CSO's during wet weather events are obvious and already well-known to the Wood River WWTP operating staff. Since the CSO sampling schedule will be largely dictated by the weather in the Wood River area, it is imperative that the Wood River WWTP operating staff respond to the alert of the occurrence of a CSO discharge in a timely manner. Once the City's staff receives notification from a high level float indicating that a CSO discharge is occurring, they will immediately notify the designated staff contact responsible for CSO sampling. Once notified, that staff person will rapidly mobilize the resources and other personnel needed to obtain grab samples at the designated points from and around the Wood River CSO at one-half hour intervals within a three hour time period. Samples will continue to be taken at one-hour intervals between hour four and the conclusion of CSO discharge. If, during the first three hours the CSO discharge ends, sampling will not be continued.

#### C. Analytical Testing

All River and CSO samples will be identically tested analytically by the Wood River WWTP operating staff. Each grab sample will be tested for fecal coliform, biological oxygen demand (BOD), total suspended solids (TSS), ammonia nitrogen, and phosphorous. The Standard Method used to prepare each sample and perform each analytical test will be as follows:

Analytical Test	Standard Method
Fecal Coliform	SM 9222 D
BOD	405.1
TSS	160.2
Ammonia Nitrogen	350.3
Phosphorous	365.2

#### III. Other Details

The above-outlined sampling / testing protocol will occur during three separate CSO discharge events. This will result in a more accurate representation of the CSO discharge flows, since the concentration of contaminants quite likely varies between CSO discharges, as well as over the duration of any given CSO discharge.

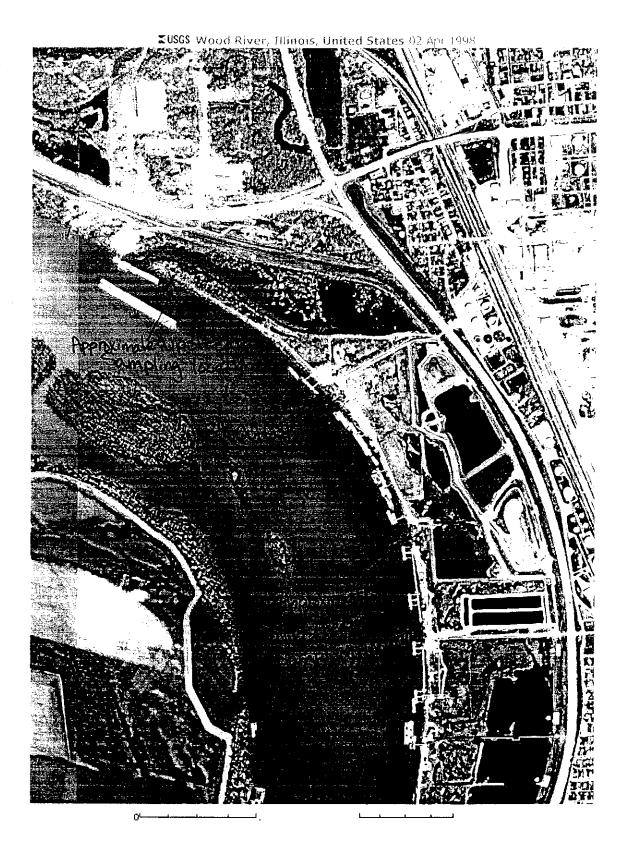
In addition to executing this sampling / testing plan, the Wood River WWTP staff will also install a flow measurement device in the 84" sewer down stream of the diversion dam. This will be a portable device which can be readily installed and subsequently de-installed, and will be rented for the duration of the entire CSO sampling period. This flow monitoring device will be read by Wood River WWTP operating staff each time that a CSO sample is obtained, and the quantity of CSO discharge flow recorded on a date form, for later use in calculating the mass loading of CSO contaminants on the receiving stream (the Mississippi River).

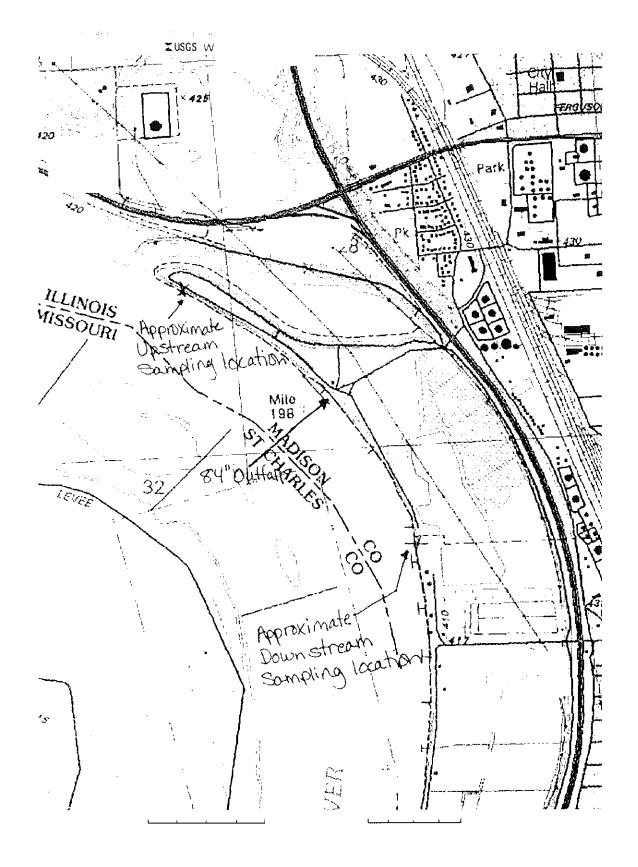
#### **END OF SAMPLING PLAN**

By: Horner & Shifrin, Inc.

August 4, 2006

Revised September 21, 2006





## APPENDIX M

**Sampling Location Photo Log** 

Horner & Shifrin, Inc Photographic Log Client Name: H&S Project No. Project: City of Wood River, IL CSO Long Term Control Plan 05.119 Photo No. Date: 10-5-2006 Direction Photo Taken: East Description: CSO/WWTP outfall to the Mississippi River located on BP Amoco property. Photo No. Date: 10-5-2006 Direction Photo Taken: West Description: CSO/WWTP discharge point to the Mississippi River.

## Horner & Shifrin, Inc Client Name: City of Wood River, IL CSO Long Term Control Plan Photographic Log H&S Project No. 05.119

Photo No.	Date:
3	10-5-2006

Direction Photo Taken:

West

Description:

Upstream sampling location access along the Mississippi River.



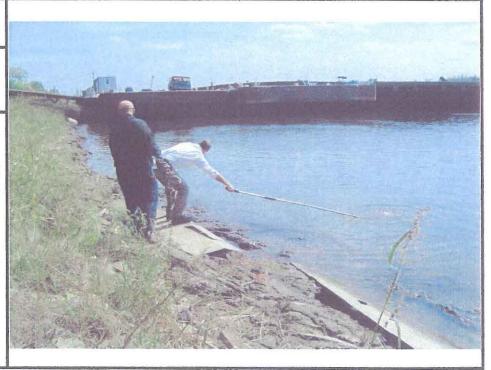
Photo No.	Date:
4	10-5-2006

Direction Photo Taken:

South

Description:

Upstream sampling location south view along the Mississippi River and demonstration of sampling technique.



## Horner & Shifrin, Inc Client Name: City of Wood River, IL CSO Long Term Control Plan Photographic Log H&S Project No. 05.119

Date:
0-5-2006

Direction Photo Taken:

South

#### Description:

Upstream sampling location south view along the Mississippi River and demonstration of sampling technique.



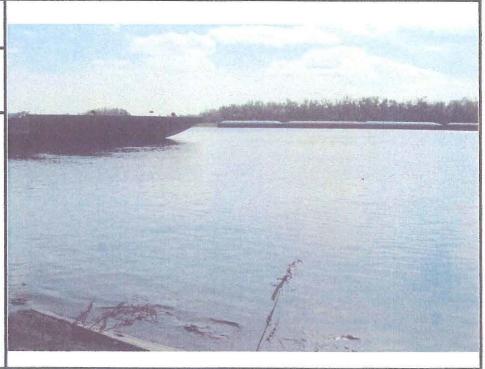
Photo No.	Date:
6	10-5-2006

Direction Photo Taken:

Southwest

Description:

Upstream sampling location southwest view along the Mississippi River.



Horner & Shifrin, Inc Photographic Log H&S Project No. Client Name: Project: City of Wood River, IL CSO Long Term Control Plan 05.119 Photo No. Date: 10-5-2006 Direction Photo Taken: West Description: Upstream sampling location west view along the Mississippi River. Photo No. Date: 8 10-5-2006 Direction Photo Taken: Northwest Description: Upstream sampling location northwest view along the Mississippi River.

## Horner & Shifrin, Inc Client Name: City of Wood River, IL CSO Long Term Control Plan Photographic Log H&S Project No. 05.119

Photo No. Date: 9 10-5-2006

Direction Photo Taken:

West

Description:

Downstream sampling location west view along the Mississippi River. Shown in the lower right hand corner is the emergency outfall for the BP Amoco lagoons.

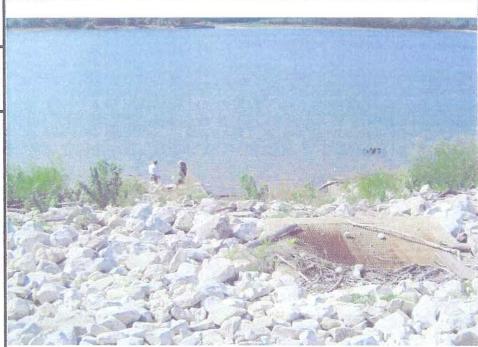


Photo No. Date: 10 10-5-2006

Direction Photo Taken:

Northwest

Description:

Downstream sampling location northwest view along the Mississippi River.



Horner & Shifrin, Inc Photographic Log Client Name: Project: H&S Project No. City of Wood River, IL CSO Long Term Control Plan 05.119 Photo No. Date: 11 10-5-2006 Direction Photo Taken: Southwest Description: Downstream sampling location southwest view along the Mississippi River.

## APPENDIX N

Mississippi River Monitoring Results

### DRY WEATHER RESULTS

PA Microbiological Methods for Monitoring the Environment Water and Wastes Page 124 Section 2, Page 108 Section 2

Method 9222 D 9221 D in the presence of chlorine

Reference: Standard Methods for the Examination of Water and Wastewater, 20th Edition

Sample Source	Physical Characteristics	Set Up	Take Down	1D	A Sample Volume ml	B Plate Count	Organisms per 100 ml (B/A) X 100	Average Organisms per 100 ml	Validated By
Missi River Upstreum	Rain: ND  C12:  Flow:  Collection Date/Time: 3-2000 to 30  Collector:	Date: 3-70-57  Analyst: J III  Beginning Time:  100 110  Ending Time:	Date 3~ Ziつう Time: よぶい	.010p	.01 .1 1	7		810	<b>3</b> -7
Misser Pairer Downstreem	Rain: NO C12: Flow: Collection Date/Time: 3-20-07 10-40 Collector:	Date: 3 ~ 10 ° ° ° 7  Analyst: -1 ° +  Beginning Time:  100  Ending Time:	Date: 3-エレウ Time: てくら / へ Analyst: リル	. 01dx	,01 • i	0 1 4		140	4
Fire	Rain: \(\frac{1}{1}\) C12: Flow: Collection Date/Time: 3.20.0   1100 Collector: jtf	Date: 3-20-47  Analyst: Ji F  Beginning Time: 400  Ending Time: 120	Date:3-21-47 Time: 75 4-4	.01	.01	0 5 61 TNTC		6100	4
Blunks	Rain: C12: Flow: Collection Date/Time: コース・ジョー・ロング Collector:	Date: 3-16-57  Analyst: J H  Beginning Time: (6 C)  Ending Time: (10)	Date:3- 2(-4-7) Time: 250 Analyst:	B <sub>1</sub>	0	6 0			
MISS: River postream	Rain: NO  C12:  Flow:  Collection Date/Time: 3-27-97, 25  Collector: 1 - 4	Date: 3-27-07  Analyst: J III  Beginning Time: (230  Ending Time:	Date:72807 Time: (145 Analyst:	10 10 Up 70	10	1 11 28		140 28 43608	Bo

#### DRY WEATHER RESULTS

A Microbiological Methods for Monitoring the Environment Water and Wastes age 124 Section 2, Page 108 Section 2

Method 9222 D 9221 D in the presence of chlorine

Reference: Standard Methods for the Examination of Water and Wastewater, 20th Edition

Sample Source	Physical Characteristics	Set Up	Take Down	۵I	A Sample Volume mt	B Plate Count	Organisms per 100 ml (B/A) X 100	Average Organisms per 100 ml	Validated By
River River Deunstrer	Rain: <i>NO</i>	Date: 3-Z7-07 Analyst: Jif	Date 3 - 28-07	ו	Ì	O			
Dinylyhour	Flow: Collection Date/Time:	Beginning Time:	Analyst: J #	10	10	21		160	30
	3-27-07 Collector: 1200	Ending Time:		7.0 7.0	20 ·	32			
	Rain: <b>///</b> )	Date: 3-27">7	Date:3-28-07	F.W 11	<i>.</i> 1	72			
Finn	Flow: 3.	Beginning Time:	Analyst:	Fix	(	20		2000	3
	3-27-4) (215 Collector:	Ending Jime:	-	Frad	(0	138	-		
	Rain: C12:	Date: 3-27-07	Date 3 - 78~7	В,	Ò	0		,	
Blank	Flow: Collection Date/Time:	Beginning Time:	Analyst:	32	0	0	-		
	3-27-07 123° Collector: J:	Ending Time:					-		
	Rain:	Date: \$3.31.67	#.1.07 Date:	B1 -001	.001	4			
c50	C12: Flow:	Analyst Tone:  9-65771	Time:	10,	ei	21	210,000		
	Collection Date/Time 3.21.07 § :30 m Collector:	Ending Time: 9:21 Pm	B	0.1	0.1	95	95000		
	-Rain:	Date: SAME	Date:	0.10	0.1	104	1.04,000		VI
C50	C12: SAME.	Analyst: Beginning Time:	Analyst:	.012	iot	21	210,600		210,000
	Collection Date/Time; V	Ending Time:	\ \ \	.001 <sub>3</sub>	.001	2			
VWNA 301	14 (5/04)		<u> </u>	1	1.,		<u> </u>	43608	\$

#### DRY WEATHER RESULTS

EPA Microbiological Methods for Monitoring the Environment Water and Wastes Page 124 Section 2, Page 108 Section 2

Method 9222 D 9221 D in the presence of chlorine

Reference: Standard Methods for the Examination of Water and Wastewater, 20th Edition.

Sample Source	Physical Characteristics	Set Up .	Take Down	10	A Sample Volume ml	B Plate Count	Organisms per 100 ml (B/A) X 100	Average Organisms per 100 ml	Validated By
Wiss Wiss	Rain: <b>\</b> 0 C12:	Date: Y-10-07 Analyst: _k/	Date: 4-11-87	Uf 10	10	19			
0000	Collection Date/Time:	Beginning Time:	Analyst: j #_	υβ 20	70	75		175	3-
	470 ~7 . <del>636</del> Collector: \$30	Ending Time:		30	30	74			
·A: 55	Rain: NO	Date: 4-10-07		D:1	10	39			
M. SS Downstreen	C12: Flow:	Analyst: J#  Beginning Time:  905	Time: j210 Analyst:  J14	DN Zu	70	フセ		390	2
)	Collection Date/Time:  4-10-17 3720  Collector:  5.4	Ending Time:	714	),v	30	83		<u> </u>   	
	Rain: $N$	Date: 4-10-07	Date: 4-11-07	(X)	. (	218			
(inc)	C12: Flow:	Analyst: 344 Beginning Time: ,	Analyst:	Fix Z	2	TNT		21,800	
	Collection Date/Time: 4-10-07 Collector: 245	Ending Time:		١٥ ا	10	TUTC			7
	Rain:	Date: 4-10-17		В	Ö	0			
Blok	C12:	Analyst: jH  Beginning Time:	Time: 1220	Bi	Ü	O			
	Collection Date/Time:	Ending Time:							
	Rain:	Date:	Date:						
	C12: Flow:	Analyst:  Beginning Time:	Time: Analyst:		L				
	Collection Date/Time:	Ending Time:			<u>.</u>				
VWNA 301								 43608	9

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

March 26, 2007

Bruce Murphy Veolia Water 559 State Aid Road P.O. Box 343 Wood River, IL 62095

TEL: (618) 254-4074 FAX: (618) 254-4075

RE: Mississippi/Final Effluent



Work Order: 07030687

Dear Bruce Murphy:

TEKLAB, INC received 3 samples on 3/21/2007 10:50:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

deather A. White

Heather A. White Project Manager (618)344-1004 ex.20

## 5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

## TEKLAB, INC.

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

Project: Mississippi/Final Effluent

LabOrder: 07030687 Report Date: 26-Mar-07

#### REPORT CONTENTS

This reporting package includes the following:		
Analysis Results ( this document )	6	pages
Chain of Custody	1	pages
Sample Receipt Checklist	1	pages
Associated Information	NA	pages
Sample Summary	NA	pages
Dates Report	NA	pages
QC Report	NA	pages
Sub Contracted Lab Report	NA	pages

MDL Report . . . . . NA pages

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

CASE NARRATIVE

Project: Mississippi/Final Effluent

LabOrder: 07030687 Report Date: 26-Mar-07

Cooler Receipt Temp: 1.8 °C

State accreditations:

IL: DPH #17584 NELAP #IL00045 | KS: NELAP #E-10347 | KY: UST #0073 | MO: ĐNR #00930 | AR: ADEQ #70-028-0

Original Chain of Custody and sample receipt checklist are on file at Teklab.

#### Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count ( > 200 CFU)

Q - QC criteria failed or noncompliant CCV

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

IDPH - Illinois Department of Public Health

X - Value exceeds Maximum Contaminant Level

# - Unknown hydrocarbon

NELAP - IL ELAP and NELAP Accredited Field of Testing

E - Value above quantitation range

H - Holding time exceeded D - Diluted out of sample

MI - Matrix interference

DNI Did Not Ignite

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

WorkOrder: 07030687 Lab ID: 07030687-001

Report Date: 26-Mar-07

Client Project: Mississippi/Final Effluent

Client Sample ID: Mississippi Upstream

Collection Date: 3/20/2007 10:30:00 AM

Matrix: AQUEOUS

Certification	RL	Qual	Result	Units	DF	Date Analyzed A	Analyst
NELAP	6		127	mg/L	1	3/22/2007	JMT
NELAP	0.10		0.27	mg/L	1	3/21/2007	MVS
					*		
NELAP	0.020		0.513	mg/L	1	3/22/2007	KLE
NELAP	5		< 5	mg/L	1	3/21/2007 2:45:00 PM	KMP
	NELAP NELAP NELAP	NELAP 6 NELAP 0.10 NELAP 0.020	NELAP 6  NELAP 0.10  NELAP 0.020	NELAP         6         127           NELAP         0.10         0.27           NELAP         0.020         0.513	NELAP         6         127         mg/L           NELAP         0.10         0.27         mg/L           NELAP         0.020         0.513         mg/L	NELAP         6         127         mg/L         1           NELAP         0.10         0.27         mg/L         1           NELAP         0.020         0.513         mg/L         1	NELAP       6       127       mg/L       1       3/22/2007         NELAP       0.10       0.27       mg/L       1       3/21/2007         NELAP       0.020       0.513       mg/L       1       3/22/2007

Sample Narrative

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water WorkOrder: 07030687

Lab ID: 07030687-002

Report Date: 26-Mar-07

Client Project: Mississippi/Final Effluent

Client Sample ID: Mississippi Downstream

Collection Date: 3/20/2007 10:40:00 AM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	Analyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6.		152	mg/L	1	3/22/2007	JMT
EPA 600 350.1 (TOTAL) Nitrogen, Ammonia (as N)	NELAP	0.10		0.27	mg/L	1	3/21/2007	MVS
EPA 600 365.2 (TOTAL) Phosphorus, Total (as P)	NELAP	0.020		0.522	mg/L	1	3/22/2007	KLE
EPA 600 405.1 (TOTAL) Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	3/21/2007 2:45:00 PM	KMP

Sample Narrative

## 5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

## TEKLAB, INC.

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

WorkOrder: 07030687

Lab ID: 07030687-003

Report Date: 26-Mar-07

Client Project: Mississippi/Final Effluent

Client Sample ID: Final Effluent

Collection Date: 3/20/2007 11:00:00 AM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		7	mg/L	1.	3/22/2007	JMT
EPA 600 350.1 (TOTAL)		•						
Nitrogen, Ammonia (as N)	NELAP	0.10		< 0.10	mg/L	1	3/21/2007	MVS
EPA 600 365.2 (TOTAL)		-						
Phosphorus, Total (as P)	NELAP	0.020	S	0.859	mg/L	1	3/22/2007	KLE
EPA 600 405.1 (TOTAL)						-		
Biochemical Oxygen Demand	NELAP	5		5	mg/L	1	3/21/2007 2:45:00 PM	KMP

Sample Narrative

EPA 600 365.2 (Total)

Matrix interference present in sample.

#### CHAIN OF CUSTODY

pg.	of	Work	Order#	07030687

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005 Samples on: ☑ Ice ☐ Blue Ice ☐ No Ice VWNA WOOD RIVEZ lient: 559 State AND Rd Preserved in: 

Lab ddress: Sity / State / Zip: Wood River It. 62095 Lab Notes: iontact: Vim Herrard Phone: 254 8674 Comments: 2, ver samples BOD should range :-Mail: between 20 1/2- 50-mg/2 we these samples known to be involved in litigation? If yes, a surcharge will apply. 🖸 Yes - 🚨 No Are these samples known to be hegardous? 

Yes No. Are there any required reporting limits to be met on the requested analysis? If yes, please provide imits in comment section. 🖸 Yes 🕒 No. Sample Collector's Name Project Name / Number 隔ATRIX INDICATE ANALYSIS REQUESTED Um Kound Billing instructions # and Type of Containers Results Requested Standard Cl 1-2 Day (100% Surpharge) Other\_\_\_\_\_ [7] 3 Day (50% Surcharge) \_ab Use Only Sample Identification Date/Time Sampled 1105 1100 Date / Time Relinquished-By Received By Date / Time 0855 6355 7-21-07 3-4-67

#### Sample Receipt Checklist

Client Name

Work Order Number 07030687

QC Level

LVL2

Water - phi accoptable upon receipt?

VEOLIA WATER-WOODRIVE

Date and Time Received: 3/21/2007 10:50:00 AM

Date Duct

3/28/2007

Received by

Checklist completed by: Morwin L. S. On 3/21/2007  Marvin L. Darling	Tanling I	Z ;	Checklis On: 3	1 Reviewed by: 6 8/21/2007	Elizəbetk Aizabeth A. H		Hurley	
Marrix:	Camer name	вјк	<u>ostelac</u>					
Shipping container/cooler in good condition? Custody seats intact on shippping container/cooler Custody seats intact on sample bottles? Ice? Chain of custody present? Chain of custody signed when retinuuished and re Chain of custody agrees with sample labels? Samples in proper container/pottle? Sample containers infact? Sufficient sample volume for indicated test? All samples received within holding time? Container/Temp Blank temperature in compliance	seived?	Yes Yes None Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye		No I No I No I No I No I No I No I No I	Not Presen Not Presen Not Presen Blue Ice	>>	∵emp °C	1.8
When thermal proservation is required, samples 0.1°C - 6.0°C, or when samples are received or	i are compliant will i ice the same day	h a tem da dall	peraturo ected.	) between				
Water - VOA vials have zero headspace?	No VOA via s sub		M	Yes No l	· Nal	1		

Any No and/or NA response must be detailed below or on the COC.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 05, 2007

Bruce Murphy Veolia Water 559 State Aid Road P.O. Box 343 Wood River, IL 62095

TEL: (618) 254-4074 FAX: (618) 254-4075 NELAP Accredited #100226

RE: Upstream/Downstream/Final

Work Order: 07030931

Dear Bruce Murphy:

TEKLAB, INC received 3 samples on 3/28/2007 12:25:00 PM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Headher A. White

Heather A. White Project Manager (618)344-1004 ex.20

## 5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

## TEKLAB, INC.

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004 FAX: 618-344-1005

Client: Veolia Water

REPORT CONTENTS

Project: Upstream/Downstream/Final

LabOrder: 07030931 Report Date: 05-Apr-07

#### This reporting package includes the following:

pages	6	Analysis Results ( this document )
pages	1	Chain of Custody
pages	1	Sample Receipt Checklist
pages	NA	Associated Information
pages	NA	Sample Summary
pages	NA	Dates Report
pages	NA	QC Report
pages	NA	Sub Contracted Lab Report
pages	NA	MDL Report

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

CASE NARRATIVE

Project: Upstream/Downstream/Final

LabOrder: 07030931 Report Date: 05-Apr-07

Cooler Receipt Temp: 3.0 °C

State accreditations:

IL: DPH #17584 NELAP #IL00045 | KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Original Chain of Custody and sample receipt checklist are on file at Teklab.

#### Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count ( > 200 CFU )

Q - QC criteria failed or noncompliant CCV

B = Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

# - Unknown hydrocarbon

where H

E - Value above quantitation range

H - Holding time exceeded

D - Diluted out of sample

MI - Matrix interference

DNI Did Not Ignite

NELAP - IL ELAP and NELAP Accredited Field of Testing

IDPH - Illinois Department of Public Health

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

WorkOrder: 07030931

Lab ID: 07030931-001

Report Date: 05-Apr-07

Client Project: Upstream/Downstream/Final

Client Sample ID: Upstream

Collection Date: 3/27/2007 11:45:00 AM

Matrix: AQUEOUS

Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
NELAP	6		155	mg/L	1	4/2/2007	JMT
				-			
NELAP	0.10		0.37	mg/L	1	3/28/2007	MVS
				-			
NELAP	0.020		0.158	mg/L	1	4/2/2007	KLE
NELAP	5		< 5	mg/L	1	3/28/2007 4:00:00 PM	KMP
	NELAP NELAP NELAP	NELAP 6  NELAP 0.10  NELAP 0.020	NELAP 6  NELAP 0.10  NELAP 0.020	NELAP         6         155           NELAP         0.10         0.37           NELAP         0.020         0.158	NELAP 6 155 mg/L  NELAP 0.10 0.37 mg/L  NELAP 0.020 0.158 mg/L	NELAP 6 155 mg/L 1  NELAP 0.10 0.37 mg/L 1  NELAP 0.020 0.158 mg/L 1	NELAP       6       155       mg/L       1       4/2/2007         NELAP       0.10       0.37       mg/L       1       3/28/2007         NELAP       0.020       0.158       mg/L       1       4/2/2007

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

Client Project: Upstream/Downstream/Final

WorkOrder: 07030931

Report Date: 05-Apr-07

Client Sample ID: Downstream

Lab ID: 07030931-002

Collection Date: 3/27/2007 12:00:00 PM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		449	mg/L	1	4/2/2007	JMT
EPA 600 350.1 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		0.24	mg/L	1	3/28/2007	MVS
EPA 600 365.2 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.020		0.227	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL)								
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	3/28/2007 4:00:00 PM	KMP

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

Client Project: Upstream/Downstream/Final

WorkOrder: 07030931

Client Sample ID: Final

Lab ID: 07030931-003

Collection Date: 3/27/2007 12:15:00 PM

Report Date: 05-Apr-07

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	Analyst
EPA 600 160.2								
Total Suspended Solids	. NELAP	6		8	mg/L	1	4/2/2007	JMT
EPA 600 350.1 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10	J	0.08	mg/L	1	3/28/2007	MVS
EPA 600 365.2 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.020		0.750	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL)	•							
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	3/28/2007 4:00:00 PM	I KMP

### **CHAIN OF CUSTODY**

pg. \_\_\_ of \_\_\_ Work Order # <u>p7030431</u>

Olient: Address: Oity / State / Zi	VWNA WOOD 559 State A p: Wood River	IL. 62095	* k								erv	ed i	in:	•				ce eld (				<u>るさ</u>	J	_°C		
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Are these sample: Are there any requ	s known to be involved in litis s known to be hazardous? C uired reporting limits to be m t section. IT Yes I No	]Yes □ No																		•			***************************************			
Project	Name / Number	Sample Col	lec	tor	's N	amı	3				ΜA	TRI	Χ	_			iħ	IDIC.	4TE	ANA	LYS.	S RE	QUE	STE	<u> </u>	. ، د د په احمد
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### Sample Receipt Checklist

Client Name

VEOLIA WATER-WOODRIVE

Work Order Number 07030931

QC Level

LVL2

Date and Time Received: 3/28/2007 12:25:00 PM

Oate Due: Received by 4/4/2007

Checklist completed by: On: 3/28/2007

Eliza Y. Traylor

Checklist Reviewed by: Elizabeth a Hin On: 3/28/2007

Elizabeth A. Hurley

Matrix:	Carrier name	<u>BJ Kostelac</u>	•			
Shipping container/cooler in good condition?		vas V	No L	Not Presen		
Custody seals intact on shippping container/cooler <sup>o</sup>		Yes	No	Not Presen M	Ÿ.	
Custody seals intact on sample bottles?		Yes []	No	Not Presen 🖟	<b>V</b>	
lde?		None	Water 🗸	Blue Ice	Temp "C	3.0
Chain of custody present?		Yes 🗹	No !			
Chain of custody signed when relinquished and rece	ived?	Yes 🔀	No			
Chain of custody agrees with sample labels?		Yes 🔽	No			
Samples in proper container/bottle?		Yes 🔽	No i			-
Sample containers Intact?		Yes  ✓	No			
Sufficient sample volume for indicated test?		Yes 🔽	No			
All samples received within holding time?		Yes 🗸	No			
Container/Temp Blank temperature in compliance?		Yes 🗸	No l			
When thermal preservation is required, samples at 0.1°C - 6.0°C, or when samples are received on ic	re compliant with re the same day :	) a temperature as collected.	between .			-
Water - VOA vists have zero headspace? N	lo VOA vials subi	mitted 😾	Yes L	No		
Water - pH acceptable upon receipt?		Yes 😾	Nol			

Any No and/or NA response must be detailed below or on the COC.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 19, 2007

Bruce Murphy Veolia Water 559 State Aid Road P.O. Box 343 Wood River, IL 62095

TEL: (618) 254-4074 FAX: (618) 254-4075 NELAP Accredited #100226

RE: Miss River Upstream/Downstream/Final Effluent Work Order: 07040312

Dear Bruce Murphy:

TEKLAB, INC received 3 samples on 4/11/2007 11:20:00 AM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Keasher A. White

Heather A. White Project Manager (618)344-1004 ex.20

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

REPORT CONTENTS

Project: Miss River Upstream/Downstream/Final Effluent

LabOrder: 07040312 Report Date: 19-Apr-07

This reporting	nackage	includes	the	following:
and reporting	Package	menuca	u	TORIO WINE.

Analysis Results ( this document )	6	pages
Chain of Custody	1	pages
Sample Receipt Checklist	1	pages
Associated Information	NA	pages
Sample Summary	NA	pages
Dates Report	NA	pages
QC Report	NA	pages
Sub Contracted Lab Report	NA	pages
MDL Report	NA	pages

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

CASE NARRATIVE

Project: Miss River Upstream/Downstream/Final Effluent

LabOrder: 07040312 Report Date: 19-Apr-07

Cooler Receipt Temp: 3.4 °C

State accreditations:

IL: DPH #17584 NELAP #IL00045 | KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Original Chain of Custody and sample receipt checklist are on file at Teklab.

#### Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count (> 200 CFU)

Q - QC criteria failed or noncompliant CCV

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

# - Unknown hydrocarbon

E - Value above quantitation range

H - Holding time exceeded

D - Diluted out of sample

MI - Matrix interference

DNI Did Not Ignite

NELAP - IL ELAP and NELAP Accredited Field of Testing IDPH - Illinois Department of Public Health

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss River Upstream/Downstream/Fin

WorkOrder: 07040312

Report Date: 19-Apr-07

Client Sample ID: Miss River Upstream

Lab ID: 07040312-001

Collection Date: 4/10/2007 8:30:00 AM

Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	Analyst
EPA 600 350.1 (TOTAL)	NELAP	0.10		0.00	mall	4	4/13/2007	MVS
Nitrogen, Ammonia (as N)	NELAP	0.10	J.	0.08	mg/L	ı	4/13/2007	MVS
EPA 600 365.4 (TOTAL) Phosphorus, Total (as P):		0.050		0.169	mg/L	1	4/18/2007	KLE
STANDARD METHODS 18TH EI	D. 2540 D							
Total Suspended Solids	NELAP	6		60	mg/L	1	4/16/2007	JMT
STANDARD METHODS 18TH EI	D. 5210 B		-					
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	4/11/2007 2:40:00 PN	1 KMP

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATÓRY RESULTS

Client: Veolia Water

Client Project: Miss River Upstream/Downstream/Fin

WorkOrder: 07040312

Client Sample ID: Miss River Downstream

Lab ID: 07040312-002

Collection Date: 4/10/2007 8:20:00 AM

Report Date: 19-Apr-07

Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 350.1 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		< 0.10	mg/L	1	4/13/2007	MVS
EPA 600 365.4 (TOTAL)			-					
Phosphorus, Total (as P)		0.050	:	0.169	mg/L	1	4/18/2007	KLE
STANDARD METHODS 18TH EI	D. 2540 D		-					
Total Suspended Solids	NELAP	6	•	62	mg/L	1	4/16/2007	JMT
STANDARD METHODS 18TH EI	). 5210 B						-	
Biochemical Oxygen Demand	NELAP	5	Н	< 5	mg/L	1	4/12/2007 10:40:00 AM	1 KMP

Sample Narrative

Standard Methods 18th Ed. 5210 B

Sample analysis did not meet hold time requirements.

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss River Upstream/Downstream/Fin

WorkOrder: 07040312

Client Sample ID: Final Effluent

Lab ID: 07040312-003

Collection Date: 4/10/2007 8:45:00 AM

Report Date: 19-Apr-07

Matrix: WASTE WATER

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 350.1 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		< 0.10	mg/L	1	4/13/2007	MVS
EPA 600 365.4 (TOTAL)							-	
Phosphorus, Total (as P)		0.050		0.484	mg/L	1	4/18/2007	KLE
STANDARD METHODS 18TH EI	D. 2540 D						•	
Total Suspended Solids	NELAP	6		11	mg/L	1	4/17/2007	JMT
STANDARD METHODS 18TH EI	D. 5210 B							
Biochemical Oxygen Demand	NELAP	5	Н	< 5	mg/L	1	4/12/2007 10:40:00 AM	KMP

Sample Narrative

Standard Methods 18th Ed. 5210 B

Sample analysis did not meet hold time requirements.

#### Sample Receipt Checklist

Client Name

VEGUA WATER-WOODRIVE

Jenny M. Nagel

Work Order Number 07040312

Checklist completed by: Or: 4/13/2007

CC Level

**EVI.2** 

Date Due:

Received by

Elizabeth A. Hurley

Date and Time Received: 4/11/2007 11:20:00 AM

4/18/2007

MMIL

Matrix:	Carrier name	BJ Koste⊧sc					
Shipping contained cooler in good condition?		Yes M	No □	Not Presen			
Custody seats intact on shippping contained cooled?	,	Yes	No :	Not Presen			
Custody seals intact on sample bottles"		Yea	Nu 🚶	Not Preser			
ice?	Ne	ocs	Water 🗹	Blue Ice	1	Temp *C	3.4
Chain of custody present?		Yeis 🗸	No[]				
Chain of custody signed when refinquished and recor	ved?	Yes 🗸	No				
Chain of custody agrees with samp a labels?		Yes 🗹	No! 1				
Samples in proper comainer/bottle?	,	Yes 🗸	No				
Sample containers intact?		Yes 🗹	No i				
Sufficient sample volume for undurated test?		Yes Vi	No i				
All samples received within holding time?		Yes M	No.				
Container/*emp Blank temporature in compliance?		Yes 😾	No				
When thermal preservation is required, samples as 6.1°C - 6.0°C, or when samples are received on for	e compliant with a e the same day as	temperature collected.	between				
Water - VOA vials have zero headspace? No Water - skil acceptable upon recoipt?	5 VOA viaas subun	med Mi Yes Mi	Yes i No!	. Nal			

Any No and/or NA response must be detailed below or on the COC.

### CHAIN OF CUSTODY

pg	of	Work Order # 07040312
----	----	-----------------------

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client: Vector Wester  Address: 559 St- 6 A.  City / State / Zip: West River FC  Contact: Jan Martin  E-Mail:  Are these samples known to be involved in little  Are these samples known to be hazardous?	ン <u>と</u> .	L 5 Y - 4	1674	ī Yes			erv Not	ed in	ı: Ö	Ice Lab		lue lu Fie One	ici	∑ No∃	lce	.2	3, 4	^(			alder an area and a second
<ul> <li>Are there any required reporting limits to be an limits in comment section. CI Yes — II No</li> </ul>	et on the requested	anolysis?	ii yes, pi	្ ១៥៥៩ ជ	tonine												ama Pakasasa	and the same of the same of the same of the same of the same of the same of the same of the same of the same of			
Project Name / Number	Sample	Collecto	r's Nan	i ë		<u> </u>	ŇΛ	TRIX	<u> </u>			IA	DICA	TE A	VAL Y	'SĮS	REQ	UEST	ED		<u></u>
	Jim K	دی شمیدوستاه .	į			5	3						;	i			<u>!</u> :				
Results Requested Bil Li Standard II 1-2 Day (190% Surcharge) (1 Other III J Day (50% Surcharge) Lab Use Only   Sample identification	ling Instruction	S # ១១០	LYSC O		ă.	Water	Drivking Water	Soil	Studge Sp. Waste	5.55	JcD	10143	Phos								The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon
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NUTE & YELLOW - LAB PINK + SAMPL

CON

### APPENDIX O

CSO Monitoring and Flow Metering Data Results

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004 FAX: 618-344-1005

April 09, 2007

Bruce Murphy Veolia Water 559 State Aid Road P.O. Box 343 Wood River, IL 62095

TEL: (618) 254-4074 FAX: (618) 254-4075 N ACCORO

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Work Order: 07040062

-

Dear Bruce Murphy:

RE: CSO/Downstream/Upstream

TEKLAB, INC received 9 samples on 4/3/2007 3:35:00 PM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Headh w A. White

Heather A. White Project Manager (618)344-1004 ex.20

#### 5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

## TEKLAB, INC.

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

REPORT CONTENTS

Project: CSO/Downstream/Upstream

LabOrder: 07040062 Report Date: 09-Apr-07

pages	12	Analysis Results ( this document )
pages	3	Chain of Custody
pages	1	Sample Receipt Checklist
pages	NA	Associated Information
pages	NA	Sample Summary
pages	NA	Dates Report
pages	NA	QC Report
pages	·NA	Sub Contracted Lab Report
pages	•NA	MDL Report

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

CASE NARRATIVE

Project: CSO/Downstream/Upstream

LabOrder: 07040062 Report Date: 09-Apr-07

Cooler Receipt Temp: 2.6 °C

State accreditations:

IL: DPH #17584 NELAP #IL00045 | KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Original Chain of Custody and sample receipt checklist are on file at Teklab.

#### Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count ( > 200 CFU)

Q - QC criteria failed or noncompliant CCV

NELAP - IL ELAP and NELAP Accredited Field of Testing

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

# - Unknown hydrocarbon

IDPH - Illinois Department of Public Health

E - Value above quantitation range

H - Holding time exceeded

D - Diluted out of sample

MI - Matrix interference

DNI Did Not Ignite

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

Client Project: CSO/Downstream/Upstream

WorkOrder: 07040062

Report Date: 09-Apr-07

Client Sample ID: CSO

Lab ID: 07040062-001

Collection Date: 4/3/2007 12:20:00 PM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		270	mg/L	1	4/5/2007	JMT
EPA 600 350.1 (TOTAL)					·		-	
Nitrogen, Ammonia (as N)	NELAP	0.10		0.83	mg/L	1	4/6/2007	KLE
EPA 600 365.2 (TOTAL)							-	
Phosphorus, Total (as P)	NELAP	0.020		0.622	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL)								
Biochemical Oxygen Demand	NELAP	5		47	mg/L	1	4/4/2007 11:45:00 AN	1 KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBR <i>A</i>	NE FILT	ER					
Fecal Coliform		1000	<del></del>	142000	CFU/100ml	1000	4/3/2007 4:20:00 PM	BMP
					w			

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

Client Project: CSO/Downstream/Upstream

WorkOrder: 07040062

Report Date: 09-Apr-07

Client Sample ID: CSO

Lab ID: 07040062-002

Collection Date: 4/3/2007 12:50:00 PM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	Analyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		152	mg/L	1	4/5/2007	JMT
EPA 600 350.1 (TOTAL) Nitrogen, Ammonia (as N)	NELAP	0.10		1.57	mg/L	1	4/6/2007	KLE
EPA 600 365.2 (TOTAL) Phosphorus, Total (as P)	NELAP	0.020		0.657	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL) Biochemical Oxygen Demand	NELAP	5		44	mg/L	1	4/4/2007 11:45:00 AM	1 KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBRA	NE FILT	ER		_			
Fecal Coliform		1000		223000	CFU/100ml	1000	4/3/2007 4:20:00 PM	BMP

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

Client Project: CSO/Downstream/Upstream

WorkOrder: 07040062

Client Sample ID: CSO

Lab ID: 07040062-003

Collection Date: 4/3/2007 1:40:00 PM

Report Date: 09-Apr-07

Matrix: AQUEOUS

Analyses	Certification	RL Q	ual Result	Units	DF	Date Analyzed	Analyst
EPA 600 160.2							
Total Suspended Solids	NELAP	6	130	mg/L	1	4/5/2007	JMT
EPA 600 350.1 (TOTAL) Nitrogen, Ammonia (as N)	NELAP	0.10	1.92	mg/L	1	4/6/2007	KLE
EPA 600 365.2 (TOTAL) Phosphorus, Total (as P)	NELAP	0.020	0.492	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL) Biochemical Oxygen Demand	NELAP	5	52	mg/L	1	4/4/2007 11:45:00 AN	1 KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBRA	NE FILTER 1000	235000	CFU/100ml	1000	4/3/2007 4:20:00 PM	вмР

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

WorkOrder: 07040062

Lab ID: 07040062-004

Report Date: 09-Apr-07

Client Project: CSO/Downstream/Upstream

Client Sample ID: Downstream

Collection Date: 4/3/2007 12:10:00 PM

Matrix: AQUEOUS

Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
NELAP	6		100	mg/L	1	4/5/2007	JMT
=							
NELAP :	0.10	J	0.07	mg/L	1	4/6/2007	KLE
-							
NELAP .	0.020		0.304	mg/L	1	4/2/2007	KLE
				•			
NELAP	5		< 5	mg/L	1	4/4/2007 12:35:00 PM	KMP
, 9222 D MEMBRA	NE FIL	ГER					
	2		142	CFU/100ml	2	4/3/2007 4:20:00 PM	вмР
	NELAP NELAP NELAP NELAP	NELAP 6  NELAP 0.10  NELAP 0.020  NELAP 5  1.9222 D MEMBRANE FIL	NELAP 6  NELAP 0.10 J  NELAP 0.020  NELAP 5  1.9222 D MEMBRANE FILTER	NELAP         6         100           NELAP         0.10         J         0.07           NELAP         0.020         0.304           NELAP         5         < 5	NELAP       6       100       mg/L         NELAP       0.10       J       0.07       mg/L         NELAP       0.020       0.304       mg/L         NELAP       5       < 5	NELAP       6       100 mg/L       1         NELAP       0.10       J       0.07 mg/L       1         NELAP       0.020       0.304 mg/L       1         NELAP       5       < 5 mg/L	NELAP       6       100       mg/L       1       4/5/2007         NELAP       0.10       J       0.07       mg/L       1       4/6/2007         NELAP       0.020       0.304       mg/L       1       4/2/2007         NELAP       5        5       mg/L       1       4/4/2007       12:35:00 PM         0.9222 D MEMBRANE FILTER

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: CSO/Downstream/Upstream

WorkOrder: 07040062

Client Sample ID: Downstream

Lab ID: 07040062-005

Collection Date: 4/3/2007 12:45:00 PM

Report Date: 09-Apr-07

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		137	mg/L	1	4/5/2007	JMT
EPA 600 350.1 (TOTAL)					•			
Nitrogen, Ammonia (as N)	NELAP	0.10		0.15	mg/L	1	4/6/2007	KLE
EPA 600 365.2 (TOTAL)					-			
Phosphorus, Total (as P)	NELAP	0.020		0.274	mg/L	1	4/2/2007	KLE
EPA 600 4 <u>05.1 (TOTAL)</u>								
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	4/4/2007 12:35:00 PM	KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBRA	NE FIL	ΓER					
Fecal Coliform		100		13600	CFU/100ml	100	4/3/2007 4:20:00 PM	вмР

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

Client Project: CSO/Downstream/Upstream

WorkOrder: 07040062

Report Date: 09-Apr-07

Client Sample ID: Downstream

Lab ID: 07040062-006

Collection Date: 4/3/2007 1:35:00 PM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		41	mg/L	1	4/5/2007	JMT
EPA 600 350.1 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10		0.11	mg/L	1	4/6/2007	KLE
EPA 600 365,2 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.020		0.411	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL)								
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	4/4/2007 12:35:00 PM	KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBR <i>A</i>	NE FIL	TER					
Fecal Coliform		100		10100	CFU/100ml	100	4/3/2007 4:20:00 PM	вмР

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: CSO/Downstream/Upstream Client Sample ID: Upstream

WorkOrder: 07040062 Lab ID: 07040062-007

Collection Date: 4/3/2007 12:00:00 PM

Report Date: 09-Apr-07

Matrix: AQUEOUS

Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
		,					
NELAP	6		93	mg/L	1	4/5/2007	JMT
NELAP	0.10	J	0.06	mg/L	1	4/6/2007	KLE
NELAP	0.020		0.288	mg/L	1	4/2/2007	KLE
•							
NELAP	5		< 5	mg/L	1	4/4/2007 12:35:00 PM	KMP
. 9222 D MEMBRA	NE FIL	<u>TER</u>					
	2		240	CFU/100mi	2	4/3/2007 4:20:00 PM	BMP
	NELAP NELAP NELAP NELAP NELAP	. NELAP 6  NELAP 0.10  NELAP 0.020  . NELAP 5  . 9222 D MEMBRANE FIL	. NELAP 6  NELAP 0.10 J  NELAP 0.020  . NELAP 5 0.9222 D MEMBRANE FILTER	NELAP         6         93           NELAP         0.10         J         0.06           NELAP         0.020         0.288           NELAP         5         < 5	NELAP 6 93 mg/L  NELAP 0.10 J 0.06 mg/L  NELAP 0.020 0.288 mg/L  NELAP 5 <5 mg/L  0.9222 D MEMBRANE FILTER	NELAP 6 93 mg/L 1  NELAP 0.10 J 0.06 mg/L 1  NELAP 0.020 0.288 mg/L 1  NELAP 5 <5 mg/L 1  0.9222 D MEMBRANE FILTER	NELAP 6 93 mg/L 1 4/5/2007  NELAP 0.10 J 0.06 mg/L 1 4/6/2007  NELAP 0.020 0.288 mg/L 1 4/2/2007  NELAP 5 <5 mg/L 1 4/4/2007 12:35:00 PM  0.9222 D MEMBRANE FILTER

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: CSO/Downstream/Upstream

WorkOrder: 07040062

Report Date: 09-Apr-07

Client Sample ID: Upstream

Lab ID: 07040062-008

Collection Date: 4/3/2007 12:40:00 PM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	Analyst
EPA 600 160.2	NELAP	c		**	en all	4	A/E (DOOT	18.47
Total Suspended Solids	NELAP	6		. 73	mg/L	ų	4/5/2007	JMT
EPA 600 350.1 (TOTAL)								
Nitrogen, Ammonia (as N)	NELAP	0.10	J	0.06	mg/L	1	4/6/2007	KLE
EPA 600 365.2 (TOTAL)	-							
Phosphorus, Total (as P)	NELAP	0.020		0.565	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL)				-				
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	4/4/2007 12:35:00 PM	I KMP
STANDARD METHODS 18TH B	ED. 9222 D MEMBRA	NE FILT	ΓER					
Fecal Coliform		2	<del></del>	64	CFU/100ml	2	4/3/2007 4:20:00 PM	BMP

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: CSO/Downstream/Upstream

WorkOrder: 07040062

Report Date: 09-Apr-07

Client Sample ID: Upstream

Lab ID: 07040062-009

Collection Date: 4/3/2007 1:30:00 PM

Matrix: AQUEOUS

Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
-							
NELAP	6		80	mg/L	1	4/5/2007	JMT
			•				
NELAP ·	0.10	J	0.09	mg/L	1	4/6/2007	KLE
			-				
NELAP	0.020		0.349	mg/L	1	4/2/2007	KLE
						-	
NELAP	5		< 5	mg/L	1	4/4/2007 12:35:00 PN	M KMP
<u>, 9222 D MEMBRA</u>	NE FIL	<u>ler</u>					
	2		98	CFU/100ml	2	4/3/2007 4:20:00 PM	BMP
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pg. \_\_\_ of \_\_\_ Work Order # <u>OTC4 colo</u>2

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client:	VUNA WOOD	River		<del></del>				_		Sam	ble	s or	n: Å		ce	□В	lue l	ce i	⊃ M̄c	lce	£,	<u>Z- (</u>	Q.	"Ç		
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The individual signing this agreement on behalf of chant authorwledges that he/she has read and understands the terms and conditions of this agreement, or the reverse side, and that he/she has the authority to sign on behalf of client

WHITE & YELLOW - LAB PINK - SAMPLER'S COPY

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pq.	of	Work Order#	:07040063
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TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

Client:	VWNA WO 555 State p: Word River	od River		wa) - 5 a					} } ;	San	ple	s o	n: 0	<b></b> (	ce	□в	lu <b>e l</b> i	ce	□ N	o Ice	-	2-4	1	_ °C			
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City / State / Zi	p: Word River	- IL 6	1685							Lab	Not	tes:															
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E-Mail:		Fax:						_		Соп	កជាជ	nts	:														
<ul> <li>Are these sample</li> <li>Are there any req</li> </ul>	s known to be involved in s known to be hazardous? uired reporting limits to be t section.  ☐ Yes  ☐ No	? □Yes □!	No		-	•					=																
Project	Name / Number	1	ample Col			í	îe		· · ·		MA	TR	Χ_,				IN	DIC	ATE.	ANA.	LYSI	SRE	QUE	STE	<u> </u>	<u>_</u>	
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The individual signing this agreement on trehalf of client acknowledges that he/she has read and understands the terms and conditions of this agreement, on the reverse side, and that he/she has the authority to sign on behalf of client.

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pg	of	Work	Order	#	
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TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005

City / State / Zip Contact:	known to be involved in lift known to be hazardous? I fired reporting limits to be m section. If Yes I No lame / Number	Phone: 25  Phone: 25  Fax:  gation? If yes, a surcha	ې ز توه ۷	VIII a	yes, ş	C) Ys		i i i	P:	ab i	we style	ed ir	a: [			7 8	) Fir	eld	∏ No!			, do -2	•			
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The individual signing this agreement on behalf of client acknowledges that he/sho has read and understands the terms and conditions of this agreement, on the reverse side, and that he/sho has the authority to sign on behalf of client.

WHITE & YELLOW - LAB PINK - SAMPLER'S COPY

#### Sample Receipt Checklist

Client Name

VEOLIA WATER-WOODRIVE

 $0.1^{\circ}\mathrm{C}$  - 6.0°C, or when samples are received on ice the same day as collected

Work Order Number 07040062

QC Level

LVL2

Water - VOA vials havé zero headspace?

Water - pH receptable upon receipt?

Date and Time Received: 4/3/2007 3:35:00 PM

Date Due

4/11/2007

Received by

Yes |

Nol i

No !

MLD

Checklist completed by: Dical M. Polilla  Nicole M. Polilla	Checkli On:	st Reviewed by 4/4/2007	Elizabeth A. H	A. Hh jurtey	rlej	
Matrix: Carrier name	Bruce Swan	<u>son</u>				
Shipping container/cooler in good condition?  Custody seals intact on shipping container/cooler?  Custody seals intact on sample bottles?	Yes (V) Yes Yes	Noll Noll Noll	Not Presen Not Presen Not Presen	<b>▽</b>		
Ice? Chain of custody present?	None 🔲 Yes 🔽	Water 🗹 No 🔔	Blue Ice		Temp *C	2.6
Chain of custody signed when relinquished and received? Chain of custody agrees with sample labels?	Yes 🗸	No Na				
Samples in proper container/bofflo? Sample containers intact?	Yes V	Nu : No		-		
Sufficient sample volume for indicated test?  At samples received within holding time?	Yes V	No No No				
ContainedTemp Blank temperature in compliance?  When thermal preservation is required, samples are compliant with	Yas <b>√.</b> La featpocature	• • • •		-		

Yes 🗸 Any No and/or NA response must be detailed below or on the COC.

No VOA vinis submitted 💆

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

April 05, 2007

Bruce Murphy Veolia Water 559 State Aid Road P.O. Box 343 Wood River, IL 62095

TEL: (618) 254-4074 FAX: (618) 254-4075

RE: Miss. UP/Miss. DN/CSO



Work Order: 07031033

Dear Bruce Murphy:

TEKLAB, INC received 3 samples on 3/30/2007 2:55:00 PM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Keasher A. White

Heather A. White Project Manager (618)344-1004 ex.20

## 5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

## TEKLAB, INC.

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004 FAX: 618-344-1005

Client: Veolia Water

REPORT CONTENTS

Project: Miss. UP/Miss. DN/CSO

LabOrder: 07031033 Report Date: 05-Apr-07

#### This reporting package includes the following:

Analysis Results ( this document )	6	pages
Chain of Custody	1	pages
Sample Receipt Checklist	1	pages
Associated Information	NA	pages
Sample Summary	NA	pages
Dates Report	NA	pages
QC Report	NA	pages
Sub Contracted Lab Report	NA	pages
MDL Report	NA	pages

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

CASE NARRATIVE

Project: Miss. UP/Miss. DN/CSO

LabOrder: 07031033

Report Date: 05-Apr-07

Cooler Receipt Temp: 16.8 °C

State accreditations:

IL: DPH #17584 NELAP #IL00045 | KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Original Chain of Custody and sample receipt checklist are on file at Teklab.

See the sample receipt checklist for any noted deviations from NELAP sample acceptance policies.

#### Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count (  $\geq 200 \text{ CFU}$  )

NELAP - IL ELAP and NELAP Accredited Field of Testing

O - QC criteria failed or noncompliant CCV

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

 $\boldsymbol{R}\;$  - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

# - Unknown hydrocarbon

IDPH - Illinois Department of Public Health

E - Value above quantitation range

H - Holding time exceeded

D - Diluted out of sample

MI - Matrix interference

DNI Did Not Ignite

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

WorkOrder: 07031033

Lab ID: 07031033-001

Report Date: 05-Apr-07

Client Project: Miss. UP/Miss. DN/CSO

Client Sample ID: Miss. UP

Collection Date: 3/30/2007 1:10:00 PM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		126	mg/L	1	4/4/2007 .	JMT
EPA 600 350.1 (TOTAL)		2.10		- 2-	4		0.00.00.00	
Nitrogen, Ammonia (as N)	NELAP	0.10		0.15	mg/L	1	3/30/2007	KLE
EPA 600 365.2 (TOTAL) Phosphorus, Total (as P)	NELAP	0.020		0.151	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL) Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	3/30/2007 4:10:00 PM	KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBRA	NE FIL	<u>TER</u>					
Fecal Coliform		2		216	CFU/100ml	2	3/30/2007 4:50:00 PM	вмР

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

#### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss. UP/Miss. DN/CSO

WorkOrder: 07031033

Report Date: 05-Apr-07

Client Sample ID: Miss DN

Lab ID: 07031033-002

Collection Date: 3/30/2007 1:18:00 PM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 160,2 Total Suspended Solids	NELAP	6		167	mg/L	1	4/4/2007	JMT
EPA 600 350.1 (TOTAL)	INCEN	Ü		107	HIG/L	•	1/1/2007	JIVI
Nitrogen, Ammonia (as N)	NELAP	0,10		0.24	mg/L	1	3/30/2007	KLE
EPA 600 365.2 (TOTAL) Phosphorus, Total (as P)	NELAP	0.020		0.189	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL) Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	3/30/2007 4:10:00 PM	KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBRA	NE FILT	<u>er</u>					
Fecal Coliform		100		12800	CFU/100ml	100	3/30/2007 4:50:00 PM	BMP

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss. UP/Miss. DN/CSO

WorkOrder: 07031033

Client Sample ID: CSO

Lab ID: 07031033-003

Collection Date: 3/30/2007 1:25:00 PM

Report Date: 05-Apr-07 Matrix: AQUEOUS

	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
NELAP	6		110	mg/L	1	4/4/2007	JMT
NELAP	0.10		1.15	mg/L	1	3/30/2007	KLE
NELAP	0.020		0.754	mg/L	1	4/2/2007	KLE
NELAP	5		40	mg/L	1	3/30/2007 4:40:00 PM	KMP
222 D MEMBRA	NE FIL	<u>eer</u>					
	1000		231000	CFU/100mi	1000	3/30/2007 4:50:00 PM	BMP
	NELAP NELAP	NELAP 0.10  NELAP 0.020  NELAP 5  222 D MEMBRANE FIL	NELAP 0.10  NELAP 0.020  NELAP 5  222 D MEMBRANE FILTER	NELAP       0.10       1.15         NELAP       0.020       0.754         NELAP       5       40         222 D MEMBRANE FILTER	NELAP       0.10       1.15       mg/L         NELAP       0.020       0.754       mg/L         NELAP       5       40       mg/L         222 D MEMBRANE FILTER	NELAP       0.10       1.15       mg/L       1         NELAP       0.020       0.754       mg/L       1         NELAP       5       40       mg/L       1         222 D MEMBRANE FILTER	NELAP       0.10       1.15       mg/L       1       3/30/2007         NELAP       0.020       0.754       mg/L       1       4/2/2007         NELAP       5       40       mg/L       1       3/30/2007 4:40:00 PM         222 D MEMBRANE FILTER

CHAIN OF CUSTODY pg. / of // Work Order # @703/033

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005 VWWA Samples on: □ Ice □ Blue Ice ▼ No Ice <u>14.8</u> °C Client: Preserved in: [] Lab Stield

MIDE

Lab Notes: Free! Begs are Specife acerding to Bruce-MIDE

OK to analyze out from per 8. Marphy. MIRE Address: City / State / Zip: Contact: Comments: E-Mail: Are these samples known to be involved in litigation? If yes, a surcharge will apply. 🗇 Yes - 🔊 No. Are these samples known to be hazardous? If Yes - \$\infty \no Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. 🗓 Yes 🔑 No. INDICATE ANALYSIS REQUESTED Project Name / Number Sample Collector's Name MATRIX Water Results Requested Billing Instructions # and Type of Containers Drinklag ' AStandard □ 1-2 Day (100% Surcharge) J Other\_\_\_\_\_ Lii 3 Day (50% Surcharge) Lab Use Only Sample Identification | Date/Time Sampled 703/033 =1 MISS.OP 3.30.078 1:10 @1:18 Date / Time Date / Time Received By Relinquished By 3.30.07 6

### Sample Receipt Checklist

Client Name

VEOLIA WATER-WOODRIVE

Work Order Number 07031033 QC Level

Date and Time Received: 3/30/2007 2:55:00 PM

Date Due: Received by 4/9/2007

MLD

Checklist completed by: Mowin L. Danling II On: 3/30/2007

Marvin L. Darling

Elizabeth A. Harley

Matrix:	Carrier name Bru	ce Mun	<u>yrlq</u>			-	
Shipping container/cooler in good condition?	Yes	ly.	No i	Not Presen			
Custody seals listect on shipping container/cooler*	v <sub>es</sub>	:1,1	No l	Not Presen	<b>Y</b>		
Costody seals intact on sample bothes?	Yes	1.1	No (1)	Not Presen	¥		
kae*?	None	<b>~</b>	v∀ater	Blue Ice		Temp *C	16.8
Chain of custody present?	Yes	<b>V</b>	No .				
Cham of custody signed when retinquished and receive	ved? Yes		Nol⊟i				
Chain of custody agrees with sample labels?	Yes		No l 1				
Samples in proper containe@bottle?	Yos	y <u>'</u>	Na l				
Sample containers imact?	Yes	✓	No			-	
Sufficient sample volume for indicated lest?	Yes	✓.	No Fi				
All samples received within holding time?	Yes	. <b>v</b> [	Noll				
Contained Lerrip Blank temperature in compliance?	Yes		No V				
When thermal preservation is required, samples are 0.1°C 6.0°C, or when samples are received on ice		•	re between				
Water - VOA viats have zero neadspace? No	VOA viats submitted	<b> </b>	Yes	No.			
Water - pH acceptable upon receipt?	Yes	<b>∨</b>	No 🗀				

Any No and/or NA response must be detailed below or on the COC.

The samples were out of temperature compliance upon raceigh. Per Stude Murphy, continue with analysis out of temperature complemen MLD II 3/30/07

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 09, 2007

Bruce Murphy Veolia Water 559 State Aid Road P.O. Box 343 Wood River, IL 62095 TEL: (618) 254-4074

FAX: (618) 254-4075

RE: Miss. UP/Miss. DN/CSO



Work Order: 07031030

### Dear Bruce Murphy:

TEKLAB, INC received 3 samples on 3/30/2007 2:55:00 PM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Headher A. White

Heather A. White Project Manager (618)344-1004 ex.20

# 5445 HORSESHOE LAKE ROAD COLLINSVILLE. ILLINOIS 62234

# TEKLAB, INC.

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

Project: Miss. UP/Miss. DN/CSO

LabOrder: 07031030 Report Date: 09-Apr-07

### REPORT CONTENTS

#### This reporting package includes the following:

pages	6	Analysis Results ( this document )
pages	1	Chain of Custody
pages	1	Sample Receipt Checklist
pages	NA	Associated Information
pages	NA	Sample Summary
pages	NA	Dates Report
pages	NA	QC Report
pages	NA	Sub Contracted Lab Report
pages	NA	MDL Report

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

CASE NARRATIVE

Project: Miss. UP/Miss. DN/CSO

LabOrder: 07031030 Report Date: 09-Apr-07

Cooler Receipt Temp: 16.8 °C

State accreditations:

IL: DPH #17584 NELAP #IL00045 | KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Original Chain of Custody and sample receipt checklist are on file at Teklab.

See the sample receipt checklist for any noted deviations from NELAP sample acceptance policies.

#### Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count ( > 200 CFU)

Q - QC criteria failed or noncompliant CCV

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

# - Unknown hydrocarbon

NELAP - IL ELAP and NELAP Accredited Field of Testing

IDPH - Illinois Department of Public Health

E - Value above quantitation range

H - Holding time exceeded

D - Diluted out of sample

MI - Matrix interference

DNI Did Not Ignite

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss. UP/Miss. DN/CSO

WorkOrder: 07031030

Report Date: 09-Apr-07

Client Sample ID: Miss. UP

Lab ID: 07031030-001

Collection Date: 3/30/2007 11:37:00 AM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	Analyst
EPA 600 160.2								
Total Suspended Solids	NELAP .	6		129	mg/L	1	4/4/2007	JMT
EPA 600 350.1 (TOTAL)				•				
Nitrogen, Ammonia (as N)	NELAP	0.10		0.14	mg/L	1	3/30/2007	KLE
EPA 600 365.2 (TOTAL)								
Phosphorus, Total (as P)	NELAP	0.020		0.103	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL)	•							
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	3/30/2007 3:40:00 PM	1 KMP
STANDARD METHODS 18TH EI	). <u>9222 D MEMB</u> RA	NE FIL	CER					
Fecal Coliform	<u> </u>	2		276	CFU/100ml	2	3/30/2007 4:30:00 PM	1 BMP

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

WorkOrder: 07031030

Lab ID: 07031030-002

Report Date: 09-Apr-07

Client Project: Miss. UP/Miss. DN/CSO

Client Sample ID: Miss DN

Collection Date: 3/30/2007 11:48:00 AM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		78	mg/Ļ	1	4/4/2007	JMT
EPA 600 350.1 (TOTAL)	₹							
Nitrogen, Ammonia (as N)	NELAP-	0.10		0.30	mg/L	1	3/30/2007	KLE
EPA 600 365,2 (TOTAL)	=							
Phosphorus, Total (as P)	NELAP	0.020		0.820	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL)					•			
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	3/30/2007 3:40:00 PM	KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBRA	NE FILT	ER					
Fecal Coliform		2		148	CFU/100ml	2	3/30/2007 4:30:00 PM	BMP

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss. UP/Miss. DN/CSO

WorkOrder: 07031030

Client Sample ID: CSO

Lab ID: 07031030-003

Collection Date: 3/30/2007 11:55:00 AM

Report Date: 09-Apr-07

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Analyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		336	mg/L	1	4/4/2007	JMT .
EPA 600 350,1 (TOTAL)					-			
Nitrogen, Ammonia (as N)	NELAP	0.10		1.45	mg/L	1	3/30/2007	KLE
EPA 600 365.2 (TOTAL)					-			
Phosphorus, Total (as P)	NELAP	0.020		0.858	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL)								-
Biochemical Oxygen Demand	NELAP	5		78	mg/L	1	3/30/2007 3:40:00 PN	A KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBRA	NE FILT	<u>rer</u>					
Fecal Coliform		1000		245000	CFU/100ml	1000	3/30/2007 4:30:00 PN	M BMP
		****			*			

CHAIN OF CUSTODY pg. / of 4 Work Order # 0 703/030

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005 Samples on: □ Ice □ Blue Ice 攻 No Ice /4.8 °C Client: Preserved in: D Lab Address: Lab Notes: Fecal Bassave storilized per Bruce.

OK to analyze per F. Murphy MATE City / State / Zip: Contact: Comments: E-Mail: Are these samples known to be involved in litigation? If yes, a surcharge will apply. 🗆 Yes - 🗷 Yo Are these samples known to be hazardous? 

Yes Sono Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. 

Yes No Project Name / Number INDICATE ANALYSIS REQUESTED Sample Collector's Name MATRIX Results Requested Billing Instructions # and Type of Containers Sludge Sp. Waste Orinking ≾Standard □ 1-2 Day (100% Surcharge) NaHSO. □ Other □ □ 3 Day (50% Surcharge) HzSO. MeOH HCL Lab Use Only Sample Identification Date/Time Sampled 1703/030 MISS.UP 3-30-07011:37

Relinquished By	Date / Time 3-30-07 @	Received By Arawan & Facling II	Date / Time 3/30/07 /455

11:48

-=2 M155

#### Sample Receipt Checklist

Client Name

VEOLIA WATER-WOODRIVE

Marvin L. Darling

Work Order Number 07031090 QC Level

LVL2

Date Oue: Received by

Date and Time Received: 3/30/2007 3:38:59 PM

4/9/2007 MLD

Checklist completed by Marvin L. Darling II On: 3/30/2007

Chocklist Reviewed by: Elizabeth a Hurley On: 3/30/2007

Elizabeth A. Hurley

Metrix:	Carrier name	Bruc	e Murpi	<u>1¥</u>				
Shapping container/cooler in good condition?		Yes	<b>⊻</b> ;	No l	Not Presen			
Custody seats intact on shippping container/cooler?		Yes		Noll	Not Preser	M		
Custody seals intact on sample bottles?		Yes		No 📙	Not Presen			
lce?		None	<b>V</b>	Water []	Blue Ice	•,.	Temp *C	16.B
Chain of custody present?		Yes	$ \mathbf{v}_i $	No				
Chain of custody signed when relinquished and roce	ived?	Yes	V.	No 🗀				
Chain of custody agrees with sample labels?		Yes		No .				
Samples in proper container/bottle?		Yes		No				
Sample containers intact?		Yes		No.				
Sufficient sample volume for indicated test?		Yes		No 🗍				
All samples received within holding time?		Yes	<b>₩</b> ĵ	No l				
Container/Temp Black temperature in compliance?		Yes	1	No 🔽				
When thermal preservation is required, samples up 0.1°C + 6.0°C, or when samples are received on to	re compliant with a the same day	i a tem; us colli	perature octod.	) between				
Water - VOA vials have zero headspace? N	lo VOA vials sub	mittee	<b>⊘</b> i	Yes	No			
Water - pH acceptable upon receipt?		Yes	V	No.				

Any No and/or NA response must be detailed below or on the COC.

The samples were out of temperature compliance upon receipt. Per Bruce Murphy, proceed with analysis out of temperature compliance. MED II 3/30/07

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

April 05, 2007

Bruce Murphy Veolia Water 559 State Aid Road P.O. Box 343 Wood River, IL 62095

TEL: (618) 254-4074 FAX: (618) 254-4075

RE: Miss. UP/Miss. DN/CSO



Work Order: 07031031-

Dear Bruce Murphy:

TEKLAB, INC received 3 samples on 3/30/2007 2:55:00 PM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

deather A. White

Heather A. White Project Manager (618)344-1004 ex.20

### 5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

# TEKLAB, INC.

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

Project: Miss. UP/Miss. DN/CSO

LabOrder: 07031031 Report Date: 05-Apr-07 REPORT CONTENTS

#### This reporting package includes the following:

Analysis Results ( this document ) $\ldots \ldots$	6	pages
Chain of Custody	1	pages
Sample Receipt Checklist	1	pages
Associated Information	NA	pages
Sample Summary	NA	pages
Dates Report	NA	pages
QC Report	NA	pages
- Sub Contracted Lab Report	NA	pages
MDL Report	NA	pages

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004 FAX: 618-344-1005

Client: Veolia Water

CASE NARRATIVE

Project: Miss. UP/Miss. DN/CSO

LabOrder: 07031031 Report Date: 05-Apr-07

Cooler Receipt Temp: 16.8 °C

State accreditations:

IL: DPH #17584 NELAP #IL00045 | KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Original Chain of Custody and sample receipt checklist are on file at Teklab.

See the sample receipt checklist for any noted deviations from NELAP sample acceptance policies.

#### Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count ( > 200 CFU)

QC criteria failed or noncompliant CCV

NELAP - IL ELAP and NELAP Accredited Field of Testing

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

# - Unknown hydrocarbon

IDPH - Illinois Department of Public Health

E - Value above quantitation range

H - Holding time exceeded

D - Diluted out of sample

MI - Matrix interference

DNI Did Not Ignite

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

WorkOrder: 07031031

Lab ID: 07031031-001

Report Date: 05-Apr-07

Client Project: Miss. UP/Miss. DN/CSO

Client Sample ID: Miss. UP

Collection Date: 3/30/2007 12:35:00 PM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		95	mg/L	1	4/4/2007	JMT
EPA 600 350.1 (TOTAL)		-						
Nitrogen, Ammonia (as N)	NELAP	0.10		0.17	mg/L	1	3/30/2007	KLE
EPA 600 365.2 (TOTAL)		-						
Phosphorus, Total (as P)	NELAP	0.040		1.14	mg/L	2	4/2/2007	KLE
EPA 600 405.1 (TOTAL)						-		
Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	3/30/2007 3:40:00 PM	KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBR <i>A</i>	NE FIL	TER					
Fecal Coliform		2		18	CFU/100ml	2	3/30/2007 4:30:00 PM	BMP
		-				-		

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss. UP/Miss. DN/CSO

WorkOrder: 07031031

Report Date: 05-Apr-07

Client Sample ID: Miss DN

Lab ID: 07031031-002

Collection Date: 3/30/2007 12:46:00 PM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		79	mg/L	1	4/4/2007	JMT
EPA 600 350.1 (TOTAL)						•		
Nitrogen, Ammonia (as N)	NELAP	0.10		0.26	mg/L	:1	3/30/2007	KLE
EPA 600 365,2 (TOTAL)						-		
Phosphorus, Total (as P)	NELAP	0.100		0.625	mg/L	5	4/2/2007	KLE
EPA 600 405.1 (TOTAL)								
Biochemical Oxygen Demand	NELAP	5		5	mg/L	1	3/30/2007 4:10:00 PM	KMP
STANDARD METHODS 18TH E	D. 9222 D MEMBRA	NE FIL	ГER					
Fecal Coliform		100		17500	CFU/100ml	100	3/30/2007 4:30:00 PM	BMP

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss. UP/Miss. DN/CSO

WorkOrder: 07031031

Client Sample ID: CSO

Lab ID: 07031031-003

Collection Date: 3/30/2007 12:52:00 PM

Report Date: 05-Apr-07 Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		213	mg/L	1	4/4/2007	JMT
EPA 600 350.1 (TOTAL) Nitrogen, Ammonia (as N)	NELAP	0.10		1.10	mg/L	1	3/30/2007	KLE
EPA 600 365.2 (TOTAL) Phosphorus, Total (as P)	NELAP	0.020		0.707	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL) Biochemical Oxygen Demand	NELAP	5		63	mg/L	1	3/30/2007 4:10:00 PM	KMP
STANDARD METHODS 18TH EI	D. 9222 D MEMBRA	NE FIL	<u>rer</u>					
Fecal Coliform		1000		167000	CFU/100ml	1000	3/30/2007 4:30:00 PM	BMP

CHAIN OF CUSTODY pg. / of 4 Work Order # 0703/03/

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005 VWAA Samples on: □ Ice □ Blue Ice 및 No Ice // S "C Client: Preserved in: D Lab Stield

Lab Notes: Per Bruce, Feed Ass and funder, must Address: City / State / Zip: ox to analyze out of temp. per the Murphy. Musit Contact: Comments: E-Mail: Are these samples known to be involved in litigation? If yes, a surcharge will apply. IT Yes. XNo. Are these samples known to be hazardous? (1) Yes (25)No. Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in comment section. If Yes 📈 No Project Name / Number Sample Collector's Name INDICATE ANALYSIS REQUESTED MATRIX Results Requested Billing Instructions # and Type of Containers Drinking ' Standard [] 1-2 Day (100% Surcharge) Date/Time Sampled NaHSO. Other Water 7 Other\_\_\_\_\_ [1] 3 Day (50% Surcharge) Lab Use Only Sample Identification M155.0P 3.30.07@/2:35 X 703/03/~CC/ 11155 @12:52 Date / Time Received By
Morus L. Loches TI Date / Time Relinquished By 3.30.07 6

The individual signing this agreement on bothalf of client acknowledges that he/she has read and anderstands the terms and appearment, on the reverse side, and that he/she has the authority to sign gra-

Water - VOA vials have zero headspace?

Water - pH acceptable upon receipt?

#### Sample Receipt Checklist

VEOLIA WATER-WOODRIVE 3/30/2007 2:55:00 PM Date and Time Received: Client Name Work Order Number 07031031 Date Due 4/9/2007 QC Level LVL<sub>2</sub> Received by MLD Checklist Reviewed by: On: 3/30/2007 On: 3/30/2007 Elizabeth A. Hurley Marvin L. Darling Matrix. Carrier name Bruce Murphy Yes V Not Presen No Shipping contained cooler in good condition? Custody seats intaction shippping container/cooler? Not Presen Yes .... No Yes | | No L Not Presen Custody seals intact or sample bottles? None 🔽 Ice? Water Blue Ice Temp "C 16.8 Yes Mc ! Chain of custody present? Chain of custody signed when reliequished and received? Yes **V** Mo V Chain of custody agrees with sample tabels? Yes Samples in proper container/bolite? Yes V No L. Yes V No I Sample containers intact? Sufficient sample volume for indicated test? Yès No ! All samples received within holding time? Yes V No Yes L No M Contained Temp Blank temperature in compliance? When thermal preservation is required, samples are compliant with a temperature between  $0.1^{\circ}\mathrm{C}$  -  $6.0^{\circ}\mathrm{C}$ , or when samples are received on ice the same day as collected. Yes .... No l

> Yes V Any No antifor NA response must be detailed below or on the COC.

The samples were out of temperature compliance upon receipt. Per Bruce Murphy, continue with analysis out of temperature compliance MLD II 3/30/07

No VOA vials submitted 🧭

ENVIRONMENTAL TESTING LABORATORY

TEL: 618-344-1004

FAX: 618-344-1005

April 05, 2007

Bruce Murphy Veolia Water 559 State Aid Road P.O. Box 343 Wood River, IL 62095

TEL: (618) 254-4074 FAX: (618) 254-4075 NELAP Accredited #100226

RE: Miss. UP/Miss. DN/CSO

Work Order: 07031034

Dear Bruce Murphy:

TEKLAB, INC received 3 samples on 3/30/2007 2:55:00 PM for the analysis presented in the following report. A list of report contents can be found on the following page.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. IL ELAP and NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Keasher A. White

Heather A. White Project Manager (618)344-1004 ex.20

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

Client: Veolia Water

REPORT CONTENTS

Project: Miss. UP/Miss. DN/CSO

LabOrder: 07031034 Report Date: 05-Apr-07

### This reporting package includes the following:

alysis Results ( this document )	6	pages
Chain of Custody	1	pages
Sample Receipt Checklist	1	pages
Associated Information	NA	pages
Sample Summary	NA	pages
Dates Report	NA	pages
QC Report	NA	pages
Sub Contracted Lab Report	NA	pages
MDL Report	NA	oaaes

5445 HORSESHOE LAKE ROAD COLLINSVILLE, ILLINOIS 62234

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004 FAX: 618-344-1005

Client: Veolia Water

Project: Miss. UP/Miss. DN/CSO

LabOrder: 07031034 Report Date: 05-Apr-07 **CASE NARRATIVE** 

Cooler Receipt Temp: 16.8 °C

State accreditations:

IL: DPH #17584 NELAP #IL00045 | KS: NELAP #E-10347 | KY: UST #0073 | MO: DNR #00930 | AR: ADEQ #70-028-0

Original Chain of Custody and sample receipt checklist are on file at Teklab.

See the sample receipt checklist for any noted deviations from NELAP sample acceptance policies.

#### Qualifiers

DF - Dilution Factor

RL - Reporting Limit

ND - Not Detected at the Reporting Limit

Surr - Surrogate Standard added by lab

TNTC - Too numerous to count ( > 200 CFU)

O - OC criteria failed or noncompliant CCV

B - Analyte detected in the associated Method Blank

J - Analyte detected below reporting limits

R - RPD outside accepted recovery limits

S - Spike Recovery outside accepted recovery limits

X - Value exceeds Maximum Contaminant Level

# - Unknown hydrocarbon

NELAP - IL ELAP and NELAP Accredited Field of Testing

IDPH - Illinois Department of Public Health

E - Value above quantitation range

H - Holding time exceeded

D - Diluted out of sample

MI - Matrix interference

DNI Did Not Ignite

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss. UP/Miss. DN/CSO

WorkOrder: 07031034

Client Sample ID: Miss. UP

Lab ID: 07031034-001

Collection Date: 3/30/2007 1:51:00 PM

Report Date: 05-Apr-07

Matrix: AQUEOUS

Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst
NELAP	6		152	mg/L	1	4/4/2007	JMT
						<del>,</del>	
NELAP	0.10		0.17	mg/L	1	3/30/2007	KLE
						<del>-</del>	
NELAP	0.020		0.139	mg/L	1	4/2/2007	KLE
NELAP	5		< 5	mg/L	1	3/30/2007 4:40:00 PM	KMP
). 9222 D MEMBR <i>A</i>	NE FIL	<u>rer</u>					
	100		400	CFU/100ml	100	3/30/2007 4:50:00 PM	вмР
	NELAP NELAP NELAP NELAP	NELAP 6  NELAP 0.10  NELAP 0.020  NELAP 5  D. 9222 D MEMBRANE FIL	NELAP 6  NELAP 0.10  NELAP 0.020  NELAP 5  D. 9222 D MEMBRANE FILTER	NELAP       6       152         NELAP       0.10       0.17         NELAP       0.020       0.139         NELAP       5       < 5	NELAP       6       152       mg/L         NELAP       0.10       0.17       mg/L         NELAP       0.020       0.139       mg/L         NELAP       5       < 5	NELAP       6       152       mg/L       1         NELAP       0.10       0.17       mg/L       1         NELAP       0.020       0.139       mg/L       1         NELAP       5       < 5	NELAP       6       152       mg/L       1       4/4/2007         NELAP       0.10       0.17       mg/L       1       3/30/2007         NELAP       0.020       0.139       mg/L       1       4/2/2007         NELAP       5       <5

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss. UP/Miss. DN/CSO

WorkOrder: 07031034

Report Date: 05-Apr-07

Client Sample ID: Miss DN

Lab ID: 07031034-002

Collection Date: 3/30/2007 2:02:00 PM

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	Analyst
EPA 600 160.2								
Total Suspended Solids	NELAP	6		127	mg/L	1	4/4/2007	JMT
EPA 600 350.1 (TOTAL) Nitrogen, Ammonia (as N)	NELAP	0.10		0.19	mg/L	1	3/30/2007	KLE
EPA 600 365.2 (TOTAL)					Ť			
Phosphorus, Total (as P)	NELAP	0.020		0.345	mg/L	1	4/2/2007	KLE
EPA 600 405.1 (TOTAL) Biochemical Oxygen Demand	NELAP	5		< 5	mg/L	1	3/30/2007 4:40:00 PM	I KMP
STANDARD METHODS 18TH EI	D. 9222 D MEMBRA	NE FIL	ΓER					
Fecal Coliform		100		9200	CFU/100ml	100	3/30/2007 4:50:00 PM	вмР

**ENVIRONMENTAL TESTING LABORATORY** 

TEL: 618-344-1004

FAX: 618-344-1005

### LABORATORY RESULTS

Client: Veolia Water

Client Project: Miss. UP/Miss. DN/CSO

WorkOrder: 07031034

Client Sample ID: CSO

Lab ID: 07031034-003

Collection Date: 3/30/2007 2:14:00 PM

Report Date: 05-Apr-07

Matrix: AQUEOUS

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed A	nalyst	
EPA 600 160.2									
Total Suspended Solids	NELAP .	6		32	mg/L	1	4/4/2007	JMT	
EPA 600 350.1 (TOTAL)									
Nitrogen, Ammonia (as N)	NELAP	0.10		0.62	mg/L	1	3/30/2007	KLE	
EPA 600 365.2 (TOTAL)									
Phosphorus, Total (as P)	NELAP	0.020		0.738	mg/L	1	4/2/2007	KLE	
EPA 600 405.1 (TOTAL)	-								
Biochemical Oxygen Demand	NELAP	5		20	mg/L	1	3/30/2007 4:40:00 PM	KMP	
STANDARD METHODS 18TH ED, 9222 D MEMBRANE FILTER									
Fecal Coliform		1000		95000	CFU/100ml	1000	3/30/2007 4:50:00 PM	вмР	
<u></u>									

### CHAIN OF CUSTODY

pg. / of 4 Work Order # <u>6.7037034</u>

TEKLAB, INC. 5445 Horseshoe Lake Road ~ Collinsville, IL 62234 ~ Phone: (618) 344-1004 ~ Fax: (618) 344-1005 Samples on: ☐ Ice ☐ Blue Ice 又 No Ice \_\_\_\_\_\_\_\_\_\_\*C V WALK Client: Preserved in: DLab Stield note

Lab Notes: OK reconstyze out of xemp per B. Murphys more

Per Brace, Focal bags are starte maps. \ddress: WOOD FINER, IL City / State / Zip: Contact: Comments: E-Mail: Are these samples known to be involved in litigation? If yes, a surcharge will apply. ① Yes 一数No Are these samples known to be hazardous? ☐ Yes StNo. Are there any required reporting limits to be met on the requested analysis? if yes, please provide iimits in comment section. Li Yes Ko Project Name / Number INDICATE ANALYSIS REQUESTED Sample Collector's Name MATRIX Results Requested Billing Instructions # and Type of Containers Drinking V Soil (Standard III 1-2 Day (109% Surcharge) I Other\_\_\_\_\_ II 3 Day (50% Surcharge) \_ab Use Only Sample Identification Date/Time Sampled M155.0P 7031034-04 3.30.070/:51 C2:02 @2:14 -c-7

Relinquished By Date / Time Received By Date / Time

1207 2 Warring Solving 3.30.07 2 Warring Solving 1. 2007 1455

### TEKLAR INC.

Sufficient sample volume for indicated test?

Container/Temp Blank temperature in compliance?

When thermal preservation is inquired, samples are compliant with a temperature between

0.1°C - 6.0°C, or when samples are received on ice the same day as collected.

All samples received within holding time?

Water - VOA vials have zero headspace?

Water - pH acceptatile upon receipt?

### Sample Receipt Checklist

TERLAD, INC						٥	ampie r	seceibi Ci	100Viio	
Client Name VEOLIA WATER-WOODRIVE Work Order Number 07031034 QC Level 1,VL2					Date and Date Duc Received		3/30/2007 2:55:00 PM 4/9/2007 MLD			
Checklist completed t On: 3/39/2007	Marvin L. Darling	inling It		Ghecklist On: 3/	Reviewed by: 30/2007	Elizabeth A. H		rlej		
Matrix:	·	Carrier name	Brus	e Murany	•	,				
Shipping container/or	ogler in good condition?		Yes	<b>√</b>	No 🔝	Not Presen	1			
Custody seals infact	en shippping contained cooler?		Yes	l" !	No	Nat Presen	, <b>V</b> ;			
Custady seals intact	on sample bottles?		Yes	1 i	No 🗀	Not Presen	V			
Ice?		N	lone	<b> </b>	Water [ ]	Blue Ice		Temp °C	16.8	
Chain of austody pre	sent?		Yes	<b>/</b>	No 🗂					
Chain of custody sign	nod when relinqueshed and receive	∌¢?	Yes	<b>*</b>	No I					
	ees with sample labels?		Yes	<b>V</b>	No [					
Samples in proper or	ontainer/boltle?		Yes	✓	No l					
Sample containers a	stact?		Yes		No	-				
Sufficient sample vol	luma for indicated test?		Yes	<u>12</u>	No i	-				

Yes 🔽 Any No and/or NA response must be obtailed below or on the CQC.

Yes 💹

Yes 🚺

No

No 🗸

No I I

Yes

No

The samples were out of temperature compliance upon receipt. Per Bruce Murphy, continue with analysis out of temperature compliance. MLD II 3/33/37

No VOA vials submitted 🔽